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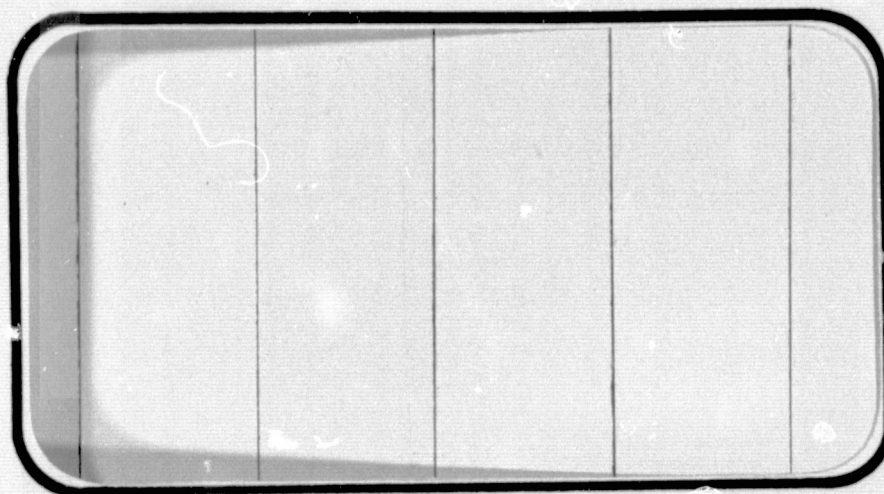
SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION ★ CHRYSLER CORPORATION

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Report

TITLE: RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL

(47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA

AMES RESEARCH CENTER 11x11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A)

NUMBER: DMS-DR-2169   DATE: November 1975   BRANCH: DATAMAN

NASA CR-141,836, Volume 1 *N76-15246*
NASA CR-141,837, Volume 2 *N76-15247*
NASA CR-141,838, Volume 3 *N76-15248*
NASA CR-141,839, Volume 4 *N76-15249*
NASA CR-141,840, Volume 5 *N76-15250*
NASA CR-141,841, Volume 6 *N76-15251*
NASA CR-141,842, Volume 7 *N76-15252*

Subsequent to publication, the following errors were discovered in the documented pressure tap locations:

1)   In table IV, the wing station corresponding to $\eta = 0.673$ was erroneously stated as $Y_0 = 300$ instead of $Y_0 = 315$.

(Continued on next page)

Prepared by: G. W. Klug, H. C. Zimmerle

Reviewed by: D. E. Poucher

Approved: *J. L. Glynn*, Manager   Concurrence: *N. D. Kemp*, Manager
             Data Operations   Data Management Services

PAGE 1 OF 2

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PUBLICATION CHANGE (Concluded)

DMS-DR-2169

2) In table IV and all plotted and tabulated left wing pressure data, tap locations given as $\eta = 0.673$, $x/c \geq 0.775$ should be $\eta = 0.641$ at the same chordwise locations.

3) In table VI, spanwise tap locations given as $\eta_v = 0.153$, 0.316, 0.600, 0.840, should be 0.158, 0.317, 0.602, 0.839, respectively.

4) In table VIII, the stated values of SRB axial coordinates X_s and X_s/ℓ_s are erroneous for tap numbers 909-932; tap numbers 870, 882, and 901-908 were deleted from the test but erroneously included in the table.

This publication change presents tables IV, VI, and VIII as revised from the subject publication. Users of the tabulated or plotted pressure data for the left wing should refer to the revised table IV for the correct pressure tap locations.

TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS
ORBITER LEFT WING PRESSURE TAP NUMBERS

η	Y_o																NO. TAPS	Σ TAPS
		x/c	0	.041	.113	.247	.424	.547	.638	.727	.793							
.23	110	TOP	208	209	210	211	212	213	214	215	216						9	9
		BOT	–	–	–	–	–	–	–	–	–						0	
		x/c	0	.010	.022	.050	.144	.229	.362	.497	.700	.874	.865	.900	.945			
.29	140	TOP	217	218	219	220	221	222	223	224	225	226	227	228	229		13	34
		BOT	–	230	231	232	233	234	235	236	237	238	239	240	241		12	
		x/c	0	.010	.020	.040	.086	.163	.246	.340	.631	.745	.839	.871	.919	.955		
.34	170	TOP	242	243	244	245	246	247	248	249	250	251	252	253	254	255	14	61
		BOT	–	256	257	258	259	260	261	262	263	264	265	266	267	268	13	
		x/c	0	.010	.020	.040	.113	.171	.274	.402	.565	.760	.808	.857	.905	.953		
.47	200	TOP	269	270	271	272	273	274	275	276	277	278	279	280	281	282	–	14	89
		BOT	–	283	284	285	286	287	288	289	290	291	292	293	294	295	296	14	
		x/c	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950		
.53	250	TOP	297	298	299	300	301	302	303	304	305	306	307	308	309	310	14	116
		BOT	–	311	312	313	314	315	316	317	318	319	320	321	322	323	13	
		x/c	.775	.850	.900	1.000												
.64	300	TOP	333	334	335	–												3	123
		BOT	344	345	346	347												4	
		x/c	0	.010	.020	.050	.150	.250	.400	.550	.750							
.73	315	TOP	324	325	326	327	328	329	330	331	332							9	140
		BOT	–	336	337	338	339	340	341	342	343							8	
		x/c	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.000					
.80	365	TOP	348	349	350	351	352	353	354	355	356	357						10	159
		BOT	–	358	359	360	361	362	363	364	365	366						9	
		x/c	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.000					
.88	415	TOP	367	368	369	370	371	372	373	374	375	376	–					10	179
		BOT	–	377	378	379	380	381	382	383	384	385	386						10	
		x/c	0	.02	.069	.157	.345	.503	.670	.862								
.92	455	TOP	387	388	389	390	391	392	393	394								8	194
		BOT	–	395	396	397	398	399	400	401								7	
		x	1362	1405														
1.000		TOP	402	403														2	196
		BOT	–	–															

ORBITER RIGHT WING PRESSURE TAP NUMBERS

η	Y_o											NO. TAPS	Σ TAPS
		x/c	0	.041	.113	.247	.425	.547	.638	.727	.793		
.235	110	TOP	404	405	406	407	408	409	410	411	412	9	205
		BOT	–	–	–	–	–	–	–	–	–	0	
		x/c	0	.010	.020	.040	.086	.163	.246	.340	.637	.718	
.301	170	TOP	413	414	415	416	–	417	418	419	420	421	9	222
		BOT	–	422	423	424	425	426	427	428	–	429	8	

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TABLE V. ORBITER   FUSELAGE   PRESSURE   TAP   NUMBERS

ORBITER X₀ ~ IN.			Φ RADIAL LOCATION ~ DEGREES																					
FULL	MODEL	X₀/L.	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ TAPS
235	7.05	0	7																						1	1
245	7.35	.008	8					9													10				3	4
265	7.95	.023	11	12	13	14	15	16			17			18							19	20	21	22	12	16
295	8.85	.046	23	24	25	26	27	28			29			30							31	32	33	34	12	28
325	9.75	.070	35	36	37	38	39	40			41			42							43	44	45	46	12	40
380	11.40	.112	47	48	49	50	51	52			53			54							55	56	57	58	12	52
440	13.20	.158																		59					1	53
450	13.50	.166	60	61	62	63	64	65			66					67			68		69	70	71	72	13	66
465	13.95	.177													73		74								2	68
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82
560	16.80	.251	89		90		91	92			93			94				95			96	97			9	91
625	18.75	.301	98		99		100	101			102			103				104			105	106			9	100
725	21.75	.378	107		108		109	110			111			112				113			114	115			9	109
880	26.40	.497	116		117		118	119			120			121				122			123	124			9	118
980	29.40	.574	125		126																	127			3	121
1080	32.40	.652	128		129		130	131			132			133				134			135	136			9	130
1180	35.40	.729	137		138		139	140			141			142							143	144			8	138
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154	155			11	149
1300	39.00	.821	156		157		158	159	160		161	162		163							164	165			10	159
1375	41.25	.879	166		167		168	169	170		171	172		173			174					175			10	169
1430	42.70	.921	176		177		178	179	180		181	182		183			184					185			10	179
1480	44.40	.960	186		187		188	189	190		191	192		193			194					195			10	189
1530	45.76	.999								196	197														2	191
1530	45.70	.?00								198	199														2	193

L. = 1297.0 IN

a. OMS POD. INSIDE
b. OMS POD. OUTSIDE

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TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP

NUMBERS (LEFT SIDE ONLY)

Zo FULL SCALE	Zo MODEL SCALE	η_v	0	.025	.05	.15	.30	.52	.685	.775	.90	No. TAPS	TAPS
550	16.5	.158	430	431	432	433	434	435	436	437		8	8
600	18.0	.317	438	439	440	441	442	443	444	445	446	9	17
690	20.7	.602	447	448	449	450	451	452	453	454	455	9	26
765	22.95	.839	456	457	458	459	460	461	462	463	464	9	35
792	23.76	.925	465	466	467	468	469	470	471	472	473	9	44

TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT

X_T ~ IN. Full Scale	X_{TM} IN. Model Scale	X_T/L_T	φ ~ DEGREES																NO TAPS
			0	30	60	90	120	135	147	162	180	198	213	225	240	270	300	330	
298/329	8.937/9.87	0	474																1
346	10.38	0.0092	475	476	477	478	479		480		481		482		483	484	485	486	12
363	10.89	0.0184	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	16
403	12.09	0.0400	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	16
449	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	16
568	17.04	0.1296	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	16
628	20.64	0.1944	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	16
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	16
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	16
803	24.24	0.2594	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	16
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	16
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	16
1050	31.50	0.3904	647	648/662	649	650	651	652	653	654	655	656	657	658	659	660	661	--	16
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	16
1250	37.50	0.4987	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	16
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	16
1500	45.00	0.6340	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	16
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	16
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	16
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	16
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786	12
STING CAVITY			787																1
																	Σ TAPS		314

$L_T = 1846.91$ IN.

TABLE VIII *Left SRB Pressure Tap Numbers*

VIEW FWD LOOKING AFT

X_s~IN. FULL SCALE	X_s~IN. MODEL SCALE	X_a/l_s	φ~DEGREES 0	45	90	135	180	225	270	315		NO. TAPS	Σ NO TAPS
200	6	0	788									1	1
260	7.8	0.0235	789	790	791	792	793	794	795	796		8	9
370	11.1	0.0950	797	798	799	800	801	802	803	804		8	17
400	12.0	0.1118	805	806	807	808	809	810	811	812		8	25
450	13.5	0.1397	813	814	815	816	817	818	819	820		8	33
550	16.5	0.1956	821	822	823	824	825	826	827	828		8	41
700	21.0	0.2794	829	830	831	832	833	834	835	836		8	49
850	25.5	0.3632	837	838	839	840	841	842	843	844		8	57
1050	31.5	0.4250	845	846	847	848	849	850	851	852		8	65
1250	37.5	0.5867	853	854	855	856	857	858	859	860		8	73
1450	43.5	0.6985	861	862	863	864	865	866	867	868		8	81
* 1503	45.09	0.7280	869				871		872			3	84
* 1505	45.15	0.7290	873		874		875		876			4	88
* 1517	45.51	0.7360	877		878		879		880			4	92
* 1519	45.57	0.737	881				883		884			3	95
1650	49.5	0.8102	885	886	887	888	889	890	891	892		8	103
1750	52.5	0.8661	893	894	895	896	897	898	899	900		8	111
* 1832.9	54.99	0.9120	909		910		911		912			4	115
* 1833.9	55.02	0.9130	913		914		915		916			4	119
1872.2	56.17	0.9344	917	918	919	920	921	922	923	924		8	127
1911.7	57.35	0.9565	925	926	927	928	929	930	931	932		8	135
SKIRT BASE			933			934			935			3	138
NOZZLE BASE ₵			936									1	139

l_s = 1789.60 IN.   * PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

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Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity
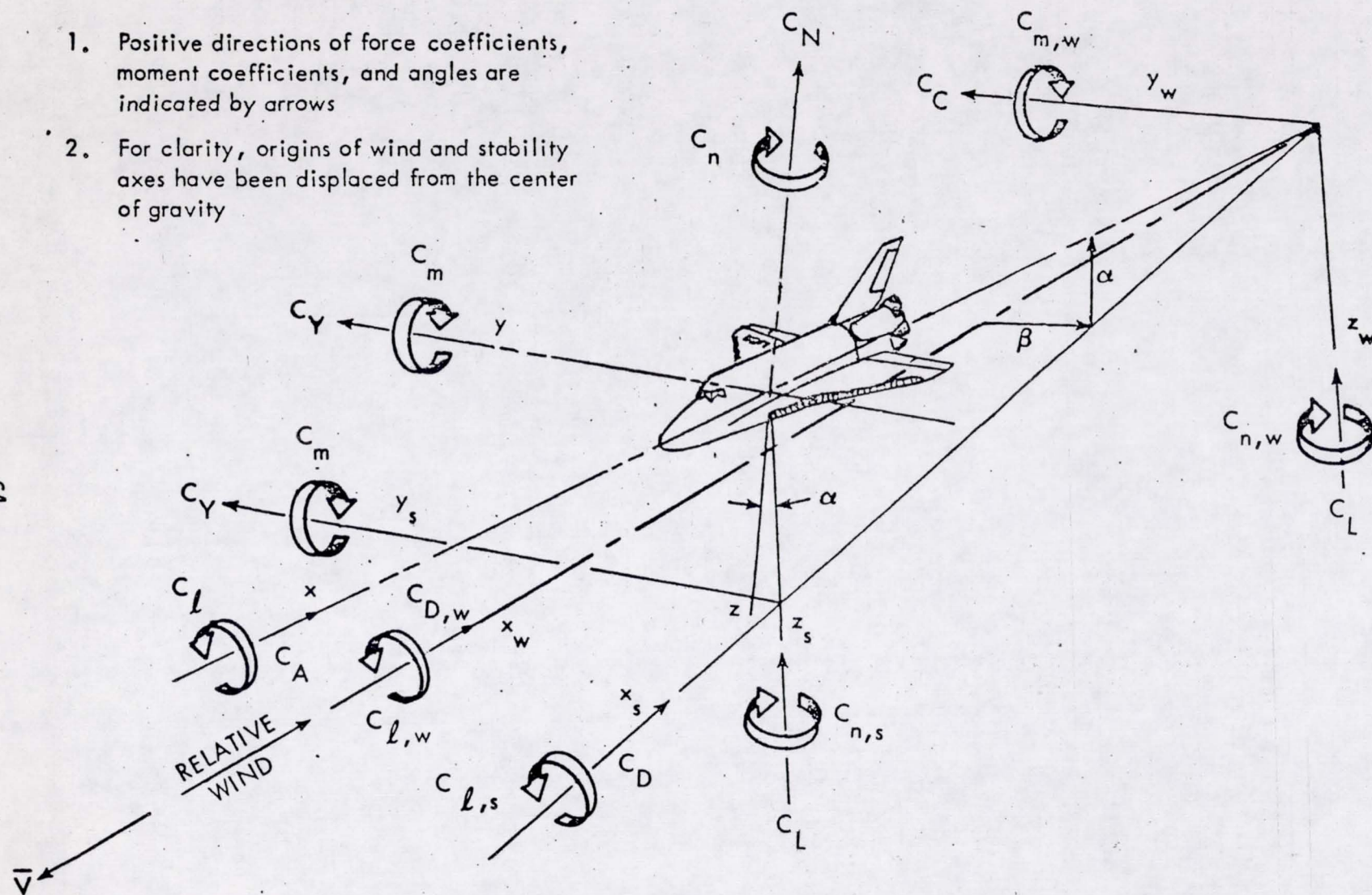
a. Forces and Moments
Figure 1. - Axis Systems.

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: <u>Space Shuttle Data Reports</u>

TITLE: <u>RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL</u>

<u>(47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA</u>

<u>AMES RESEARCH CENTER 11x11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A)</u>

NUMBER: <u>DMS-DR-2169</u> DATE: <u>November 1975</u> BRANCH: <u>DATAMAN</u>

NASA CR-141,836, Volume 1
NASA CR-141,837, Volume 2
NASA CR-141,838, Volume 3
NASA CR-141,839, Volume 4
NASA CR-141,840, Volume 5
NASA CR-141,841, Volume 6
NASA CR-141,842, Volume 7

Subsequent to publication of the test data report, it was discovered that the correct SRB base area was 236.46 ft^2. Initial data reduction done at the test facility was performed using a value of 201.07 ft^2 as presented in the pre-test report.

This publication change presents corrected test data in the form of plotted data figures, tabulated listings and text information as presented in the data report. Additionally, CAB and CAC coefficients have been added for all balances. This publication change replaces all the force test data contained in Volumes 1 and 2.

Equations used to correct the CAB, CAF and CYNF coefficients are as follows:

Prepared by: G. W. Klug

Reviewed by: D. E. Poucher

Approved: _J. T. Glynn_   Concurrence: _N. D. Kemp_

J. L. Glynn, Manager   N. D. Kemp, Manager
Data Operations   Data Management Services

PAGE 1 OF 2

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PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Reports

TITLE: _____

_____

_____

NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

$$CAB_{new} = CAB_{old} * 236.46/201.07$$

$$CAF_{new} = CA - CAC - CAB_{new}$$

$$CYNF_{new} = CYNF_{old} - (CAF_{new} - CAF_{old}) * 250.5/1297.0$$

A complete list of data and page replacements follows.

All Volumes:

Page 26 Ab_{SRB} was listed as 201.07, should be 236.46.

Page 55   Max cross-sectional area listed as 201.07 full scale and 0.1809 model scale, should be 236.46 and 0.2128, respectively

Volume 1:

Data Figures 4-51, pages 1-843 replaced.

Volume 2:

Force data tabulation completely replaced, pages 1-113.

PAGE 2 OF 2

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$$C_{A_{b_{SRB}}} = -C_{P_{b_{SRB}}} \frac{A_{b_{SRB}}}{S}$$

$$C_{m_{b_o}} = -\frac{X_{b_o}}{\ell_b} C_{N_{b_o}} + \frac{Z_{b_o}}{\ell_b} C_{A_{b_o}}$$

$$C_{m_{bf}} = -\frac{X_{bf}}{\ell_b} C_{N_{bf}}$$

$$C_{N_{f_o}} = C_{N_o} - C_{N_{b_o}} - C_{N_{bf}}$$

$$C_{m_{f_o}} = C_{m_o} - C_{m_{b_o}} - C_{m_{bf}}$$

$$C_{A_{f_o}} = C_{A_o} - C_{A_{b_o}}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{A_{b_{ET}}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_o} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

DATA REDUCTION (Concluded)

$A_{b_{SRB}}$ = 236.46 ft^2

i_{b_0} = 14.75°

X_{bf} = 1329.7 in.

X_{b_0} = 1263.0 in.

Z_{b_0} = 336.5 in.

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 2o.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about β = 0:

$$\begin{pmatrix} \text{Coefficient on} \\ \text{Right SRB} \\ \text{at} +\beta \end{pmatrix} = \begin{pmatrix} \text{Coefficient on} \\ \text{Left SRB} \\ \text{at} -\beta \end{pmatrix}$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

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TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S21

GENERAL DESCRIPTION : _____

_____

_____

MODEL SCALE: 0.030.

DRAWING NUMBER : VL72-000143D, VL77-000066

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	1789.40	53.682
Tank Diameter, In.	146.00	4.38
Aft shroud dia., In.	192.00	5.76
Fineness Ratio	9.3198	9.3198
Area - Ft^2		
Max Cross-Sectional	236.46	0.2128
Planform		
Wetted		
Base		
WP of BSRM centerline (Z_T)	400.0	1.200
FS of BSRM nose (X_T)	743.0	22.29
BP of BSRM centerline (Y_T)	250.5	7.515

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: EXTERNAL TANK - T$_{28}$

GENERAL DESCRIPTION:

NOTE: (Dimensions are to tank structural OML, TPS not included.)

MODEL SCALE: 0.030 .

DRAWING NUMBER   VL72-000143D, VL78-000063

DIMENSION:	FULL SCALE	MODEL SCALE
Length , In.	1844.275	55.328
Max Width Dia., In.	331.00	9.93
Max Depth		
Fineness Ratio	5.687	5.687
Area - Ft^2		
Max Cross-Sectional	594.678	0.053
Planform		
Wetted		
Base		

November, 1975

DMS-DR-2169
NASA CR-141,841

RESULTS OF A PRESSURE LOADS INVESTIGATION ON A

0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED

SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE

NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE

UNITARY PLAN WIND TUNNEL (IA81A)

VOLUME 6 OF 7

by

E. Chee
Shuttle Aero Sciences
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La.   70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 11-019-1
NASA Series Number: IA81A
Model Number: 47-OTS
Test Dates: 26 July through 8 August 1974
Occupancy Hours: 184

FACILITY COORDINATOR: AERODYNAMICS ANALYSIS ENGINEER:

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Chrysler Corporation Space Division assumes no responsibility for the
data presented other than display characteristics.

RESULTS OF A PRESSURE LOADS INVESTIGATION ON A

0.030-SCALE MODEL (47-OTS) OF THE

INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5

IN THE NASA AMES RESEARCH CENTER 11 x 11 FOOT LEG OF

THE UNITARY PLAN WIND TUNNEL (IA81A)

by

E. Chee, Rockwell International Space Division

ABSTRACT

Results of wind tunnel test IA81A are presented. The model was a 0.030-scale representation of the integrated Space Shuttle Vehicle Configuration 5. Testing was conducted in the NASA Ames Research Center 11 x 11 foot leg of the Unitary Plan Wind Tunnel to investigate pressure distributions for aeroloads analyses at Mach numbers from 0.9 through 1.4. Angles of attack and sideslip were varied from -6 to +6 degrees.

This report consists of 7 volumes of force and pressure data. They are arranged in the following manner:

Volume No.	Contents		
1	IA81A Plotted Force Data		
2	IA81A Tabulated Force Data IA81A Plotted Pressure Data		
3	IA81A Tabulated Pressure Data		
	(a) orbiter fuselage	pages	1-447
	(b) left vertical tail surface	pages	448-615

ABSTRACT (Concluded)

TABLE OF CONTENTS

INDEX OF MODEL FIGURES

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PLOTTED COEFFICIENTS SCHEDULE:

NOMENCLATURE
General

SYMBOL	PLOT SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$

Reference & C.G. Definitions

A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS		
b		base
l		local
s		static conditions
t		total conditions
∞		free stream

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NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\dfrac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\dfrac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\dfrac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\dfrac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\dfrac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\dfrac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\dfrac{\text{rolling moment}}{qSb}$

Stability-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_L	CL	lift coefficient; $\dfrac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\dfrac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\dfrac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\dfrac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\dfrac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\dfrac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\dfrac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

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Symbol	Plot Symbol	Defintion
$A_{b_{ET}}$		external tank base area, ft^2
A_{bf}		body flap upper surface area, ft^2
A_{b_o}		Orbiter base area, ft^2
$A_{b_{OMS}}$		OMS pod base area, ft^2
$A_{b_{SRB}}$		SRB base area, ft^2
$C_{A_{b_{ET}}}$	CABET	external tank base axial force coefficient
$C_{A_{b_o}}$	CABO	Orbiter base axial force coefficient
$C_{A_{b_{SRB}}}$	CABSRB	SRB base axial force coefficient
$C_{A_{ET}}$		external tank total axial force coefficient
$C_{A_{f_{ET}}}$		external tank forebody axial force coefficient
$C_{A_{f_o}}$		Orbiter forebody axial force coefficient
$C_{A_{f_{SRB}}}$		SRB forebody axial force coefficient
C_{A_o}		Orbiter total axial force coefficient

Symbol	Plot Symbol	Definition
$C_{p_{b_{OMS}}}$		OMS pod average base pressure coefficient
$C_{p_{b_{SRB}}}$		SRB average base pressure coefficient
C_{p_i}		pressure coefficient associated with i^{th} tap
ET		external tank
i_{b_o}		Oribter base incidence angle to a line of constant X_o, deg.
ℓ_b		Orbiter fuselage length, in.
MRP		moment reference point
OMS		orbital manuvering system
RN/FT	RN/L	unit Reynolds number, million per foot
S_e		elevon surface area, ft^2
SRB		solid rocket booster
X_{bf}		longitudinal distance from MRP to bodyflap area centroid, in.
X_{b_o}		longitudinal distance from MRP to Orbiter base area centroid, in.
X/C	X/CW	chordwise location on wing
X/Cv	X/CV	chordwise location on vertical tail
X_o		Orbiter longitudinal station, in.
X_o/L_o	X/LT	location on Orbiter, fraction of Orbiter body length aft of Orbiter nose

Symbol	Plot Symbol	Definition
$C_{A_{SRB}}$		SRB total axial force coefficient
$\bar{c}_e$		elevon mean aerodynamic chord, in
$C_{h_{e_I}}$	CHEI	inboard elevon hinge moment coefficient
$C_{h_{e_o}}$	CHEO	outboard elevon hinge moment coefficient
$C_{m_{bf}}$	CMBF	bodyflap upper surface pitching moment coefficient
$C_{m_{b_o}}$	CMBO	Orbiter base pitching moment coefficient
$C_{m_{f_o}}$		Orbiter forebody pitching moment coefficient
C_{m_o}		Orbiter total pitching moment coefficient
$C_{n_{bf}}$		bodyflap upper surface normal force coefficient
$C_{N_{b_o}}$		Orbiter base normal force coefficient
$C_{N_{f_o}}$		Orbiter forebody normal force coefficient
C_{N_o}		Orbiter total normal force coefficient
$C_{P_{b_{ET}}}$		external tank average base pressure coefficient
$C_{P_{bf}}$		bodyflap average upper surface pressure coefficient

Symbol	Plot Symbol	Definition
$C_{p_{b_o}}$		Orbiter average base pressure coefficient
X_S	XS	SRB longitudinal station, in.
X_S/ℓ_S	X/LS	location on SRB, fraction of SRB body length aft of SRB nose
X_T	XT	external tank longitudinal station, in.
X_T/ℓ_T	X/LT	location on ET, fraction of ET body length aft of ET nose
Y_o	YO	Orbiter lateral station, in.
Y_S	YS	SRB lateral station, in.
Y_T	YT	external tank lateral station, in.
Z_{b_o}		vertical distance from MRP to Orbiter base area centroid, in.
Z_o	ZO	Orbiter vertical station, in.
Z_S	ZS	SRB vertical station, in
Z_T	ZT	external tank vertical station, in.
α_o	ALPHAO	Orbiter angle of attack, degrees
α_{S_L}	ALPHAL	left SRB angle of attack, degrees
α_{S_R}	ALPHAR	right SRB angle of attack, degrees
α_T	ALPHAT	external tank angle of attack, degrees
β_o	BETAO	Orbiter angle of sideslip, degrees

Symbol	Plot Symbol	Definition
β_{B_L}	BETAL	left SRB angle of sideslip, degrees
β_{S_R}	BETAR	right SRB angle of sideslip, degrees
β_T	BETAT	external tank angle of sideslip, degrees
δ_{e_i}	ELV-IB	inboard elevon deflection angle, degrees
δ_{e_o}	ELV-OB	outboard elevon deflection angle, degrees
δ_R	RUDDER	rudder deflection angle, degrees
δ_{SB}	SPDBRK	speedbrake deflection angle, degrees
η	2Y/b	spanwise station, 2Y/b
ϕ	PHI	radial location, degrees
C_{A_c}		orbiter sting cavity axial force coefficient
β_I	BETAI	integrated vehicle angle of sideslip, degrees
α_I	ALPHAI	integrated vehicle angle of attack, degrees
X/LB	X/LB	longitudinal position/body length (fuselage)
Y/BW	Y/BW	local spanwise position/wing span
Z/BV	Z/BV	local spanwise position/vertical tail span
SRM	SRM	solid rocket motor

Symbol	Plot Symbol	Definition
C_{n_f}	CYNF	forebody yawing moment coefficient, body axis system
C_{m_f}	CLMF	forebody pitching moment coefficient
C_{N_f}	CNF	forebody normal force coefficient
$C_{A_{f_0}}$	CAFAFO	forebody axial force coefficient at zero alpha
C_{N_α}	CNALFA	derivative of normal-force coefficient with respect to alpha, per degree
X_{cp}/ℓ_v	XAC/LV	vertical tail chordwise center of pressure location
Y_{cp}/ℓ_v	YAC/LV	vertical tail spanwise center of pressure location
C_{Y_β}	CYBETA	derivative of side-force coefficient with respect to beta, per degree
ΔC_{A_f}	DCAF	incremental forebody axial force coefficient
ΔC_{N_f}	DCNF	incremental forebody normal force coefficient
ΔC_{m_f}	DCLMF	incremental forebody pitching moment coefficient
CHM1	CHM1	contributions of the forward bridge to the inboard elevon hinge moment coefficient
CHM2	CHM2	contributions of the aft bridge to the inboard elevon hinge moment coefficient
CHM3	CHM3	contributions of the forward bridge to the outboard elevon hinge moment coefficient
CHM4	CHM4	contributions of the aft bridge to the outboard elevon hinge moment coefficient

NOMENCLATURE (Concluded)

Data Set Identifiers

The fourth letter of the data set identifier indicates the component, e.g., RET<u>T</u>O4.

Force

O	Orbiter
T	External Tank
L	Left SRB
R	Right SRB
H	Orbiter - Hinge moment
I	Integrated Vehicle

Pressure

B	Orbiter Fuselage
L	Left Wing lower surface
U	Left Wing upper surface
W	Right Wing lower surface
R	Right Wing upper surface
V	Left Vertical Tail
S	SRM Booster
T	External Tank
C	Miscellaneous Orifices

CONFIGURATIONS INVESTIGATED

The model was a 0.030-scale representation of the Rockwell International Space Shuttle Integrated Vehicle. The Orbiter was per VL70-000140A/B lines. The external tank represented VL78-000063 lines. The solid rocket motors were per VL72-000066 lines. Figures 2a, b, and c present sketches of the model configuration. Model simulation included attach structure protuberances, fairings, fuel feed lines, vent lines, etc. (basic model construction was of ARMCO 17-4 steel).

Model forces and moments were measured by 3 Task Corporation six component balances. A 2.5 in. MK XXA was mounted in the Orbiter. A 2.0 in. MK IIIC was mounted in the external tank. A 1.5 in. MK IIC was mounted in the LH SRB. The balances are attached to stings entering each component through the base areas. Figures 2m and 2n show the balance locations in the model. The RH wing inboard and outboard elevon panels are instrumented with hinge moment gages as shown in figure 1c.

Surface and base pressures were measured on the Orbiter, external tank and solid rocket motors. The Orbiter was instrumented with a total of 480 pressure-orifices, of which 6 were base and cavity pressures. The external tank was instrumented with a total of 314 pressure orifices. The LH SRM was instrumented with a total of 149 pressure orifices. Orifice locations are presented in tables IV through VIII and figures 2d through 2 l.

The following model shorthand configuration notation was used:

$LVA' = AT_{28}$ thru $_{32}$ FL_{10} FL_{11} FR_{10} N_{86} O_1 PT_{12} PT_{22-27} S_{21} T_{28}

CONFIGURATIONS INVESTIGATED (Concluded)

AT_{28} thru 32 $=$ Attach hardware structure

FL_{10} $=$ LH_2 feedline

FL_{11} $=$ LO_2 feedline

FR_{10} $=$ Umbilical door fairing

N_{86} $=$ Nozzles for solid rocket boosters

O_1 $=$ $B_{26} C_9 E_{44} F_9 M_{16} N_{28} R_5 V_8 W_{116}$

PT_{12} $=$ Lightning rod on nose of T_{28}

PT_{22} thru 27 $=$ External protuberance

S_{21} $=$ Solid rocket boosters

T_{28} $=$ External tank

Where model dimensions are as described in table III. The LVA' configuration was tested with speed brake gap both sealed and open and with elevon gap both sealed and open. The (instrumented) right elevon gap was sealed by a permanent sponge rubber seal. The left elevon gap was sealed with plaster. Speed brake gaps were sealed by red wax.

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11 by 11 Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from 1.7×10^6/ft to 9.4×10^6/ft. The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

All balances data were reduced to coefficients about a moment reference point located at:

$$X_T = 976.0 \text{ in.}$$

$$Y_T = 0.0 \text{ in.}$$

$$Z_T = 400.0 \text{ in.}$$

The following reference dimensions were used:

$$S = 2690.0 \text{ ft}^2$$

$$\ell_b = 1297.0 \text{ in.}$$

Hinge moment data were reduced about their respective hinge lines using the following reference values:

$$S_e = 210.0 \text{ ft}^2$$

$$\bar{C}_e = 90.7 \text{ in.}$$

Base and forebody coefficients were calculated as follows:

$$C_{N_{b_o}} = -C_{P_{b_o}} \frac{A_{b_o}}{S} \tan i_{b_o} - C_{P_{b_{OMS}}} \frac{A_{b_{OMS}}}{S}$$

$$C_{N_{bf}} = -C_{P_{bf}} \frac{A_{bf}}{S}$$

$$C_{A_{b_o}} = -C_{P_{b_o}} \frac{A_{b_o}}{S} - C_{P_{b_{OMS}}} \frac{A_{b_{OMS}}}{S}$$

$$C_{A_{b_{ET}}} = -C_{P_{b_{ET}}} \frac{A_{b_{ET}}}{S}$$

$$C_{A_{b_{SRB}}} = -C_{P_{b_{SRB}}} \frac{A_{b_{SRB}}}{S}$$

$$C_{m_{b_o}} = -\frac{X_{b_o}}{\ell_b} C_{N_{b_o}} + \frac{Z_{b_o}}{\ell_b} C_{A_{b_o}}$$

$$C_{m_{bf}} = -\frac{X_{bf}}{\ell_b} C_{N_{bf}}$$

$$C_{N_{f_o}} = C_{N_o} - C_{N_{b_o}} - C_{N_{bf}}$$

$$C_{m_{f_o}} = C_{m_o} - C_{m_{b_o}} - C_{m_{bf}}$$

$$C_{A_{f_o}} = C_{A_o} - C_{A_{b_o}}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{A_{b_{ET}}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_o} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

DATA REDUCTION (Concluded)

$$A_{b_{SRB}} = 201.07 \text{ ft}^2$$

$$i_{b_o} = 14.75°$$

$$X_{bf} = 1329.7 \text{ in.}$$

$$X_{b_o} = 1263.0 \text{ in.}$$

$$Z_{b_o} = 336.5 \text{ in.}$$

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 2o.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about $\beta = 0$:

$$\begin{pmatrix} \text{Coefficient on} \\ \text{Right SRB} \\ \text{at } +\beta \end{pmatrix} = \begin{pmatrix} \text{Coefficient on} \\ \text{Left SRB} \\ \text{at } -\beta \end{pmatrix}$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

TABLE I.

TEST : IA81A			DATE : 8-23-74

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq.foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	2.25×10^6	275	120
0.90	2.25×10^6	370	120
1.10	2.25×10^6	422	120
1.25	2.25×10^6	448	120
1.40	2.25×10^6	461	120
1.1	3.00×10^6	562	120
0.6	3.20×10^6	393	120
0.9	3.50×10^6	589	120

BALANCE UTILIZED: Task Corp. 2.5" MK XXA, 2.0" MKIIIC, 1.5" MKIIC

	CAPACITY: 2.5"	2.0"	1.5"	COEFFICIENT TOLERANCE:
NF	6000	1800	1000	
SF	3000	900	500	
AF	600	500	100	
PM				
RM	4000	1000	800	
YM				

COMMENTS:

TABLE II.

TEST: IA81A 11-019-1		DATA SET/RUN NUMBER COLLATION SUMMARY						DATE: 8-23-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	β	δaif/...	δR	δSB	M	RN/ft	β=0	ALPHA ~α -6	-4	-2	0	2	4	6	8	10
RET001	LVA' W/SB HL UNSEALED	I	0	%	0	55	1.1	3.0	1									
2	SEALED	E			⌒		0.6	3.2	2									
3		E					0.9	3.5	3									
(NOTE) 4		E					1.1	3.0	4									
(NOTE) 5		I	↓	↓		↓	1.25	2.25	5									
6	LVA' BASIC LAUNCH VEHICLE	B	B	8/4		0	0.6	⌒		11	10		6		7		8	9
7	LVA' W/ LEFT ELEVON HL UNSEALED	A	A				0.9	↓		18	17	16	12	13	14	15		
8							1.1	3.0					19	20	21*			
9		↓	↓				1.1	2.25		25	24	23	26	27	28	22		
10	LVA' W/ LEFT ELEVON HL SEALED	E	0				1.1	⌒	29									
11		A	A	↓			1.25			30	31	32	33	34	35	36		
12		A	A	8/0			1.4			43	44	45	46	47	**48/50	49		
13		B	B	8/0			0.6			42	41		37		38		39	40
14		A	A	8/-4			1.4			51	52	53	***54	55	56	57		
15				8/6			0.9		.	65	66	67	68	69	70	71		
16				8/6			1.1			58	59	60	61	62	63	64		
17		↓	↓	10/4	↓	↓	0.9	↓		85	86	87	88	89	90	91		

SEE SUPPLEMENTARY SCHEDULE ON FOLLOWING PAGE

TEST RUN NUMBERS

TYPE OF DATA α OR β SCHEDULES	SEE PAGE 31	COEFFICIENT SCHEDULES	IDVAR (1)	IDVAR (2)	NDV

* RUN 21 β=-6° MISSING   ** RUN 48 α=4, β=-6,-4,0,4   *** RUN 56 α=0, β=-6,-4,-2,0,2,4,6
RUN 50 α=4, β=6

NOTE: D/S 4 & 5 LOST DURING TEST

TABLE II (Continued)

| TEST: IA81A 11-019-1 | | | | | | | | | | | | | | | | DATE: 8-23-74 | | |

DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		δei/sec	δR	δSB	M	RN/ft	β=0	ALPHA ~ α								
		α	β							−6	−4	−2	0	2	4	6	8	10
RETO18	LVA' w/ LEFT ELEVON HL SEALED	G	G	10/4	O	O	1.1	2.25		92	93		94		95	96		
19		C	C				1.25				97		98		99			
20		E	E	%0			1.4						72					
21							1.25						74					
22							1.1						76					
23							1.4		73									
24							1.25		75									
25							1.1		77									
26		A	A				0.9			78	79	80	81	82	83	84		

TEST RUN NUMBERS

SEE SUPPLEMENTARY SCHEDULE ON FOLLOWING PAGE.

| TYPE OF DATA α OR β SCHEDULES | SEE PAGE 31 | COEFFICIENT SCHEDULES | IDVAR (1) | ICVAR (2) | NDV |

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TABLE II (Continued)

COMPONENT	DATASET IDENTIFIER	INDEPENDENT VARIABLES		FORCE COEFFICIENT SCHEDULE							
Orbiter	RETOXX	BETAO	ALPHAO	CNF	CLMF	CA	CY	CYNF	CBL	*CABT	CAF
External Tank	RETTXX	BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Left SRB	RETLXX	BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Hinge Moment	RETHXX	BETAO	ALPHAO	CHEI	CHEO	CHM1 CHM2	CHM3	CHM4			

* Where CABT is $C_{A_b} + C_{A_c}$ for each vehicle component.

TABLE II (Concluded)

α or β Schedules

Schedule A

β \ α	-6	-4	-2	0	2	4	6
-6	-	x	x	x	x	x	-
-4	x	x	-	x	-	x	x
-2	x	-	x	-	x	-	x
0	x	x	-	x	-	x	x
2	x	-	x	-	x	-	x
4	x	x	-	x	-	x	x
6	-	x	x	x	x	x	-

Schedule B

β \ α	-4	0	4	8	10
-6		x			
-4	x	x	x		
0	x	x	x	x	x
4	x	x	x		
6		x			

Schedule G

β \ α	-6	-4	0	4	6
-6			x		
-4		x	x	x	
0	x	x	x	x	x
4		x	x	x	
6			x		

Schedule C

$\beta = \pm 4,\ 0,\ \alpha = \pm 4,\ 0$

Schedule E

$\beta = 0,\ \alpha = -6,\ -4,\ -2,\ 0,\ 2,\ 4,\ 6$

Schedule I

$\beta = 0,\ \alpha = -6,\ -4,\ -2,\ 0,\ 2,\ 4,\ 6,\ 8$

TABLE III. – MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT_{28}

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (LH and RH). 2 Members.

MODEL SCALE: 0.030   MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:	MEMBER		FULL SCALE		MODEL SCALE
	#1	X_O	1317.00		39.51
		Y_O	- 96.50	(LH)	- 2.895
			96.50	(RH)	2.895
		Z_O	267.50		8.025
		X_T	2058.00		61.740
		Y_T	- 125.68	(LH)	- 3.770
			125.68	(RH)	3.770
		Z_T	515.5		15.465
	#2	X_O	1317.00		39.51
		Y_O	- 96.50	(LH)	- 2.895
			96.50	(RH)	2.895
		Z_O	267.50		8.025
		X_T	1872.00		56.160
		Y_T	-125.68	(LH)	- 3.770
			125.68	(RH)	3.770
		Z_T	504.5		15.135
Diameter, In.	#1		11.5		0.345
	#2		15.5		0.465

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: ATTACH STRUCTURE – AT_{29}

GENERAL DESCRIPTION: Right-hand umbilical fairing to FT cross member attach structure (1 member).

MODEL SCALE: 0.030   MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000062B, –Martin Marietta 82600207000

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Umbilical fairing attach point:	X_O	1317.00	39.510
	Y_O	66.316	1.989
	Z_O	247.182	7.415
	X_T	2058.683	61.740
	Y_T	66.316	1.989
	Z_T	583.683	17.510
ET attach point:	X_T	2058.00	61.740
	Y_T	– 12.00	– 0.360
	Z_T	568.25	17.048
	X_O	1317.00	39.510
	Y_O	– 12.00	– 0.36
	Z_O	60.75	1.823
Attach structure dia., in.		4.5	0.135

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: ATTACH STRUCTURE – AT_{30}

GENERAL DESCRIPTION: Forward SRB to ET attach structure (LH and RH).

MODEL SCALE: 0.030

DRAWING NO.:   VL78-000066, Martin Marietta 82600204300

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach point	X_T	985.675	29.570
	Y_T	-172.50 (LH)	- 5.175
		172.50 (RH)	5.175
	Z_T	0.0	0.0
	X_S	442.675	13.280
	Y_S	80.00	2.400
	Z_S	0.0	0.0
	X_O	244.675	7.340
	Y_O	- 184.5 (LH)	-5.535
		184.5 (RH)	5.535
	Z_O	0.0	0.0

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT_{31}

GENERAL DESCRIPTION: Rear FT to SRB attach structure (LH & RH), 3 members.

MODEL SCALE: 0.030   MODEL DRAWING: _____

DRAWING NO.: ___ VL78-000063, -000062B, -000066

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X_T	2058.00	61.74
		Y_T	- 171.50 (LH)	- 5.145
			171.50 (RH)	5.145
		Z_T	457.00	13.710
		X_s	1511.00	45.33
		Y_s	53.24	1.597
		Z_s	57.00	1.710
	#2	X_T	2058.00	61.74
		Y_T	- 163.58	- 4.916
		Z_T	449.81	13.494
		X_s	1511.00	45.33
		Y_s	76.56	2.297
		Z_s	15.73	0.472
	#3	X_T	2058.00	61.74
		Y_T	- 161.72	- 4.852
		Z_T	343.00	10.29
		X_s	1511.00	45.33
		Y_s	53.24	1.597
		Z_s	- 57.00	- 1.710
Diameter of members, In.:	#1			
	#2			
	#3			

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT32

GENERAL DESCRIPTION: Forward orbiter/FT attach structure (2 member structure)

MODEL SCALE: __0.030__

DRAWING NO.: __VI78-000062B, Martin Marietta 8260020914__

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X_O	388.15	11.6445
		Y_O	0.0	0.0
(Attach pt on orb Z_T= 614)		Z_O	LWR ML	LWR ML
		X_T	1129.9	34.05
		Y_T	46.50	1.395
(Attach pt on tank)		Z_T	562.58	16.877
	#2	X_O	388.15	11.645
		Y_O	0.0	0.0
		Z_O	LWR ML	LWR ML
		X_T	1129.9	34.05
		Y_T	- 46.50	- 1.395
		Z_T	562.58	16.877
Diameter, In.	#1		6.0	0.180
	#2		6.0	0.180

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : __BODY - B_{26}__

GENERAL DESCRIPTION : __Configuration 140A/B orbiter fuselage__

NOTE: __B_{26} is identical to B_{24} except underside of fuselage has been__

__refaired to accept W_{116}.__

MODEL SCALE: 0.030   MODEL DRAWING NO.: SS-A00147, Rel. 12.

DRAWING NUMBER : __VL70-000143B, -000200, -000205, -006089, -000145,__
__-000140A, -000140B__

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X_0=235), In.	1293.3	38.799
Length (IML: Fwd Sta. X_0=238), In.	1290.3	38.709
Max Width (@ X_0 = 1528.3), In.	264.0	7.920
Max Depth (@ X_0 = 1464), In.	250.00	7.500
Fineness Ratio	0.264	0.264
Area – Ft.^{2}		
Max. Cross–Sectional	340.88	0.307
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : _CANOPY - C_9_

GENERAL DESCRIPTION : _Configuration 3A. Canopy used with fuselage B_{26}._

MODEL SCALE: 0.030   MODEL DWG NO.: SS-A00147

DRAWING NUMBER : ___VL70-000143A___

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X_o =434.643 to 578), In.	143.357	4.301
Max Width (X_o = 513.127), In.	152.412	4.572
Max Depth (At X_o = 485.), In.	25.000	0.750
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: ELEVON – E_{44}

GENERAL DESCRIPTION: 6.0 In. F.S. gaps machined into E_{44} elevon. Flapper doors, centerbody pieces, and tipseals are not simulated. (Data are for one of two sides).

MODEL SCALE: 0.030

DRAWING NUMBER: Not available

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
Area -- Ft.^{2}	210.0	0.189
Span (equivalent), In.	349.2	10.476
Inb'd equivalent chord , In.	118.0	3.54
Outb'd equivalent chord, In.	55.19	1.656
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.2096	0.2096
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	– 10.056	– 10.056
Hingeline	0.00	0.00
(Product of area & c̄) Area Moment (Normal to hinge line),Ft^3	1587.25	0.0429
Mean Aerodynamic Chord, In.	90.7	2.721

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : __BODY FLAP - F$_9$__

GENERAL DESCRIPTION : __Configuration 140 A/B__

MODEL SCALE: 0.030

DRAWING NUMBER : __VL70-000140B, -000200__

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length (Chord), In.	84.7	2.541
Max Width , In.	262.308	7.869
Max Depth , In.	23.00	0.690
Fineness Ratio		
Area – Ft.^{2}		
Max. Cross–Sectional		
Planform	142.60	0.128
Wetted		
Base	41.90	0.0377

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TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FL_{10}

GENERAL DESCRIPTION: LH_2 feedline on upper left-hand side of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.:   VL78-000063, -000062B

DIMENSIONS: .

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	2071.5	62.145
	Y_T	- 70.0	- 2.100
	Z_T	573.934	17.218
Trailing edge at:	X_T	2081.80	62.454
	Y_T	- 70.00	- 2.10
	Z_T	584.059	17.522
Diameter of line (17.0 I.D.)		18.160	0.545

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: _____ FEEDLINE - FL_{11} _____

GENERAL DESCRIPTION: ___ LO_2 feedline on upper right-hand of T_{28}. _____

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1000.667	30.02
	Y_T	70.00	2.10
	Z_T	150.519	4.516
Trailing edge at:	X_T	2071.5	62.145
	Y_T	70.00	2.100
	Z_T	573.934	17.218
Line diameter (17.0 I.D.)	(O.D.)	18.16	0.545

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: FAIRING – FR_{10}

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/orbiter

attach structure.

MODEL SCALE: 0.030

DRAWING NO.:   VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:	FULL SCALE	MODEL SCALE
Leading edge at	2052.0	61.74
Length	193.0	5.79
Width	15.0	0.45

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: __OMS POD – M$_{16}$__

GENERAL DESCRIPTION: __Configuration 140C orbiter OMS pod – short pod__

MODEL SCALE: 0.030 .

DRAWING NUMBER __VL70-008401, -008410__

DIMENSION:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. X_0=1310.5), In.	258.50	7.755
Max Width (@ X_0 = 1511), In.	136.8	4.104
Max Depth (@ X_0 = 1511), In.	74.70	2.241
Fineness Ratio	2.484	2.484
Area – Ft^2		
Max Cross-Sectional	58.864	0.053
Planform		
Wetted		
Base		

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TABLE III. – MODEL DIMENSIONAL DATA– Continued.

MODEL COMPONENT: OMS NOZZLES – N_{28}

GENERAL DESCRIPTION: Configuration 140A 'B orbiter OMS Nozzles

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A (Location), SS-A00106, Rel. 5 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft^2		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X_o	1518.00	45.54
Y_o	- 88.0	--2.64
Z_o	492.00	14.76
Right Lower Nozzle		
X_o	1518.00	45.54
Y_o	88.0	2.64
Z_o	492.00	14.76
Null Position - Deg.		
Left Upper Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'
Right Lower Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BSRM NOZZLE - N_{86}

GENERAL DESCRIPTION: Booster solid rocket motor nozzles.

MODEL SCALE: 0.030

DRAWING NO.: VL70-000066

DIMENSIONS:	FULL SCALE	MODEL SCALE
Diameter, D_{ex} - In. (I.D.)	144.29	4.3287
Diameter, D_{ex} - In. (O.D.)	146.79	4.4037
Diameter, DT - IN.		
Diameter, D_{in} - In.		
Area - Ft^2		
Max. Cross-sectional (I.D.)	113.553	0.102
Gimbal Origin:		
Left Nozzle		
X_o	1902.6	57.078
Y_o	--250.50	- 7.515
Z_o	400.0	12.00
Right Nozzle		
X_o	1902.6	57.078
Y_o	250.50	7.515
Z_o	400.0	12.00
Null Position: (Deg.)		
Left nozzle gimbal	$\pm$ 8	$\pm$ 8
Right nozzle gimbal	$\pm$ 8	$\pm$ 8

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: ET PROTUBERANCE – PT_{12}

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.030

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	30.90	0.927
Diameter – In.	3.20	0.096

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT_{22}

GENERAL DESCRIPTION: Left-hand electrical conduit line on T_{28}.

MODEL SCALE: 0.030.

DRAWING NUMBER   VL78-000063, -000062R

DIMENSION:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1084.333	32.530
	Y_T	- 99.591	-- 2.988
	Z_T	-139.620	- 4.189
Trailing edge at:	X_T	2058.000	61.740
	Y_T	- 99.591	- 2.988
	Z_T	- 139.620	- 4.189
Conduit size:		2.0 x 6.0	0.06 x 0.18
Centerline of line located radially at $\emptyset$ = 35.5 deg.			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO_2 RECIRCULATION LINE - PT_{23}

GENERAL DESCRIPTION: LO_2 recirculation line on right-hand upper side
side of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.:   VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1040.667	31.220
	Y_T	94.169	2.825
	Z_T	540.934	16.228
Trailing edge at:	X_T	2062.920	61.888
	Y_T	70.000	2.100
	Z_T	573.934	17.218
Diameter of line		4.0	0.120

Centerline of line located radially at $\emptyset = 33°45'$
  (Right of TDC looking forward)

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: LH_2 RECIRCULATION LINE – PT_{24}

GENERAL DESCRIPTION: LH_2 recirculation line on T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78–000063, –000062B, Martin Marietta 82600207000

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1040.667	31.220
	Y_T	– 94.169	– 2.825
	Z_T	540.934	16.228
Trailing edge at:	X_T	2062.920	61.888
	Y_T	– 70.00	–2.100
	Z_T	573.934	17.218
Diameter of line		4.00	0.120

Centerline of line located radially at $\emptyset = 33°45'$
    (Left of TDC looking forward)

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT:___ELECTRICAL LINE - PT_{25}

GENERAL DESCRIPTION:___Right-hand aft electrical conduit line on T_{28} with

___LH_2 pressure sensor line and LOX vent valve actuator line.

MODEL SCALE:___0.030

DRAWING NO.:___VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1084.333	32.530
	Y_T	99.591	2.988
	Z_T	139.620	4.189
Trailing edge at:	$\dot{X}_T$	2058.000	61.74
	Y_T	99.591	2.988
	Z_T	139.620	4.189
Line diameter		2.0 x 6.0	0.06 x 0.18

Centerline of line located radially at $\emptyset = 35.5^{o}$

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: LO_2 PRESSURE LINE – PT_{26}

GENERAL DESCRIPTION: LO_2 pressure line on T_{28}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	360.733	10.822
	Y_T	15.145	0.454
	Z_T	407.718	12.232
Trailing edge at:	X_T	2083.5	62.505
	Y_T	63.25	1.898
	Z_T	609.00	18.27

Centerline of line located radially at $\phi = 27°$

Line diameter	2.0	0.060

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT_{27}

GENERAL DESCRIPTION: Electrical conduit on the right-hand forward
section of T_{28}.

MODEL SCALE: 0.030

DRAWING NO.:   VL78-000062B

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	360.733	10.822
	Y_T	11.549	0.346
	Z_T	412.474	12.374
Trailing edge at:	X_T	876.273	26.288
	Y_T	226.114	6.783
	Z_T	646.774	19.403

Centerline of conduit located radially at $\phi = 47.5^\circ$

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TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R$_5$

GENERAL DESCRIPTION: Configuration 140C orbiter rudder (Identical to configuration 140A/B rudder).

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000146B. --000095

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
Area - Ft^2	100.15	0.090
Span (equivalent), In.	201.0	6.03
Inb'd equivalent chord, In.	91.585	2.748
Outb'd equivalent chord, In.	50.833	1.525
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) (Product of area & $\bar{c}$), Ft^3	610.92	0.016
Mean Aerodynamic Chord, In.	73.2	2.196

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S_{21}

GENERAL DESCRIPTION:

MODEL SCALE: 0.030

DRAWING NUMBER   VL72-000143D, VL77-000066

DIMENSION:	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	1789.40	53.682
~~Max Width~~ Tank Diameter, In.	146.00	4.38
~~Max Depth~~ Aft shroud Dia., In.	192.00	5.76
Fineness Ratio	9.3198	9.3198
Area – Ft^2		
Max Cross-Sectional	201.062	0.1809
Planform		
Wetted		
Base		
WP of BSRM centerline (Z_T)	400.0	1.200
FS of BSRM nose (X_T)	743.0	22.29
BP of BSRM centerline (Y_T)	250.5	7.515

TABLE III. – MODEL DIMENSIONAL DATA – Continued.

MODEL COMPONENT: EXTERNAL TANK – T_{28}

GENERAL DESCRIPTION:

NOTE: (Dimensions are to tank structural OML, TPS not included.)

MODEL SCALE: 0.030 .

DRAWING NUMBER   VL72-000143D, VL78-000063

DIMENSION:	FULL SCALE	MODEL SCALE
Length , In.	1844.275	55.328
Max Width Dia., In.	331.00	9.93
Max Depth		
Fineness Ratio	5.687	5.687
Area – Ft^2		
Max Cross-Sectional	594.678	0.053
Planform		
Wetted		
Base		

TABLE III. — MODEL DIMENSIONAL DATA — Continued.

MODEL COMPONENT: VERTICAL - V_8

GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail)

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140C, -000146B ·

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft^2		
Planform	413.253	0.372
Span (Theo) - In.	315.72	9.472
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	8.055
Tip (Theo) WP	108.47	3.254
MAC	199.81	5.992
Fus. Sta. of .25 MAC	1463.35	43.901
W.P. of .25 MAC	635.52	19.066
B.L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	14.92	14.92
Leading Edge Radius	2.00	0.060
Void Area	13.17	0.0019
Blanketed Area	0.0	0.0

TABLE III. – MODEL DIMENSIONAL DATA – Concluded.

MODEL COMPONENT: WING-W₁₁₆

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W₁₁₄ except airfoil thickness, Dihedral angle is along

trailing edge of wing.

MODEL SCALE : 0.030

TEST NO.

DWG. NO. VI70-000140A, -000200

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft²		
Planform	2690.00	2.421
Span (Theo In.	936.68	28.10
Aspect Ratio	2.265	2.245
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	3.000	3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	– 10.056	– 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.24	20.677
Tip, (Theo) B.P.	137.85	4.136
MAC	474.81	14.244
Fus. Sta. of .25 MAC	1136.83	34.105
W.P. of .25 MAC	290.58	8.717
B.L. of .25 MAC	182.13	5.464
EXPOSED DATA		
Area (Theo) Ft²	1751.50	1.576
Span, (Theo) In. BP108	720.68	21.620
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	16.863
Tip 1.00 b/2	137.85	4.136
MAC	392.83	11.785
Fus. Sta. of .25 MAC	1185.98	35.579
W.P. of .25 MAC	294.30	8.829
B.L. of .25 MAC	251.77	7.553
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root b/2 =	0.113	0.113
Tip b/2 =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft²	113.18	0.102
Leading Edge Intersects Fus M. L. @ Sta	500.0	15.00
Leading Edge Intersects Wing @ Sta	1024.00	30.72

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TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS

η	Y₀		ORBITER LEFT WING PRESSURE TAP NUMBERS														No. TAPS	Σ TAPS
.235	110	X/C	0	.041	.113	.247	.429	.547	.638	.727	.793							9	9
		TOP	208	209	210	211	212	213	214	215	216							9	
		BOT	—	—	—	—	—	—	—									0	
.299	140	X/C	0	.010	.020	.050	.0944	.229	.362	.497	.700	.834	.865	.900	.965			13	34
		TOP	217	218	219	220	221	222	223	224	225	226	227	228	229			13	
		BOT		230	231	232	233	234	235	236	237	238	239	240	241			12	
.364	170	X/C	0	.010	.020	.040	.086	.163	.246	.390	.637	.798	.839	.879	.919	.955		14	61
		TOP	242	243	244	245	246	247	248	249	250	251	252	253	254	265		14	
		BOT		256	257	258	259	260	261	262	263	264	265	266	267	268		13	
.427	200	X/C	0	.010	.020	.040	.0813	.177	.274	.402	.545	.760	.808	.857	.905	.953	1.000	14	89
		TOP	269	270	271	272	273	274	275	276	277	278	279	280	281	282		14	
		BOT		283	284	285	286	287	288	289	290	291	292	293	294	295	296	14	
.534	250	X/C	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950		14	116
		TOP	297	298	299	300	301	302	303	304	305	306	307	308	309	310		14	
		BOT		311	312	313	314	315	316	317	318	319	320	321	322	323		13	
.673	300	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.950	1.000			12	140
		TOP	324	325	326	327	328	329	330	331	332	333	334	335				12	
		BOT		336	337	338	339	340	341	342	343	344	345	346	347			12	
.780	365	X/C	0	.010	.020	.050	.150	.250	.650	.750	.850	.950						10	159
		TOP	348	349	350	351	352	353	354	355	356	357						10	
		BOT		358	359	360	361	362	363	364	365	366						9	
.887	415	X/C	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.000					10	179
		TOP	367	368	369	370	371	372	373	374	375	376						10	
		BOT		377	378	379	380	381	382	383	384	385	386					10	
.972	455	X/C	0	.020	.069	.157	.345	.503	.670	.862								8	194
		TOP	387	388	389	390	391	392	393	394								8	
		BOT		395	396	397	398	399	400	401								7	
1.000 WING TIP	468.34	X min	1362	1405															
		TOP	402	403														2	196
		BOT																	

η	Y₀		ORBITER RIGHT WING PRESSURE TAP NUMBERS														No. TAPS	Σ TAPS
.235	110	X/C	0	.041	.113	.247	.429	.547	.638	.727	.793							9	205
		TOP	404	405	406	407	408	409	410	411	412							9	
		BOT																0	
.364	170	X/C	0	.010	.020	.040	.086	.163	.246	.390		.798						9	222
		TOP	413	414	415	416	—	417	418	419	420	421						9	
		BOT		422	423	424	425	426	427	428		429						8	

Hex Fus loc ~ 25

TABLE V. ORBITER FUSELAGE PRESSURE TAP NUMBERS

Orbiter X_0 - IN.   Φ   RADIAL LOCATION ~ DEGREES

FULL	MODEL	X_0/L	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ TAPS
235	7.05	0	7																						1	1
245	7.35	.008	8					9													10				3	4
265	7.95	.023	11	12	13	14	15	16			17			18							19	20	21	22	12	16
295	8.85	.046	23	24	25	26	27	28			29			30							31	32	33	34	12	28
325	9.75	.070	35	36	37	38	39	40			41			42							43	44	45	46	12	40
380	11.40	.112	47	48	49	50	51	52			53			54							55	56	57	58	12	52
440	13.20	.158																		59					1	53
450	13.50	.166	60	61	62	63	64	65			66					67				68	69	70	71	72	13	66
465	13.95	.177													73	74									2	68
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82
560	16.80	.251	89		90		91	92			93			94				95			96		97		9	91
625	18.75	.301	98		99		100	101			102			103				104			105		106		9	100
725	21.75	.378	107		108		109	110			111			112				113			114		115		9	109
880	26.40	.497	116		117		118	119			120			121				122			123		124		9	118
980	29.40	.574	125		126																		127		3	121
1080	32.40	.652	128		129		130	131			132			133				134			135		136		9	130
1180	35.40	.729	137		138		139	140			141			142							143		144		8	138
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154		155		11	149
1300	39.00	.821	156		157		158	159	160		161	162		163				164				165			10	159
1375	41.25	.879	166		167		168	169	170		171	172		173				174				175			10	169
1430	42.70	.921	176		177		178	179	180		181	182		183				184				185			10	179
1480	44.40	.960	186		187		188	189	190		191	192		193				194				195			10	189
1530	45.72	.999								196	197														2	191
1530	45.90	.300								198	199														2	193

L. = 1297.0 IN.

a. OMS POD, INSIDE
b. OMS POD OUTSIDE

TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP

NUMBERS (LEFT SIDE ONLY)

Zo FULL SCALE	Zo MODEL SCALE	η_V	0	.025	.05	.15	.30	.52	.685	.775	.90	No. TAPS	TAPS
	VERTICAL						X/CV						
550	16.5	.153	430	431	432	433	434	435	436	437		8	8
600	18.0	.316	438	439	440	441	442	443	444	445	446	9	17
690	20.7	.600	447	448	449	450	451	452	453	454	455	9	26
765	22.95	.840	456	457	458	459	460	461	462	463	464	9	35
792	23.76	.925	465	466	467	468	469	470	471	472	473	9	44

61

TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT

$X_T \sim IN.$ Full Scale	$X_T \sim IN.$ Model Scale	X_T/ℓ_T	φ ~ DEGREES 0	30	60	90	120	135	147	162	180	198	213	225	240	270	300	330	NO TAPS
298/329	8.937/9.867	c	474																1
346	10.38	0.0092	475	476	477	478	479		480		481		482		483	484	485	486	12
363	10.89	0.0184	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	16
403	12.09	0.0400	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	16
448	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	16
568	17.04	0.1292	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	16
688	20.64	0.1944	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	16
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	16
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	16
808	24.24	0.2594	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	16
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	16
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	16
1050	31.50	0.3904	647	648/642	649	650	651	652	653	654	655	656	657	658	659	660	661	---	16
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	16
1250	37.50	0.4987	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	16
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	16
1500	45.00	0.6340	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	16
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	16
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	16
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	16
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786	12
STING CAVITY			787																1
																		Σ TAPS	314

$\ell_T = 1846.91$ IN.

TABLE VIII Left SRB Pressure Tap Numbers

VIEW FWD LOOKING AFT

X_s ~IN. FULL SCALE	X_s ~IN. MODEL SCALE	X_a/l_s	ϕ ~ DEGREES									NO. TAPS	Σ NO. TAPS
			0	45	90	135	180	225	270	315			
200	6	0	788									1	1
260	7.8	0.0335	789	790	791	792	793	794	795	796		8	9
370	11.1	0.0950	797	798	799	800	801	802	803	804		8	17
400	12.0	0.1118	805	806	807	808	809	810	811	812		8	25
450	13.5	0.1397	813	814	815	816	817	818	819	820		8	33
550	16.5	0.1956	821	822	823	824	825	826	827	828		8	41
700	21.0	0.2794	829	830	831	832	833	834	835	836		8	49
850	25.5	0.3632	837	838	839	840	841	842	843	844		8	57
1050	31.5	0.4250	845	846	847	848	849	850	851	852		8	65
1250	37.5	0.5867	853	854	855	856	857	858	859	860		8	73
1450	43.5	0.6985	861	862	863	864	865	866	867	868		8	81
✳ 1503	45.09	0.7280	869		870		871		872			4	85
✳ 1505	45.15	0.7290	873		874		875		876			4	89
✳ 1517	45.51	0.7360	877		878		879		880			4	93
✳ 1519	45.57	0.737	881		882		883		884			4	97
1650	49.5	0.8102	885	886	887	888	889	890	891	892		8	105
1750	52.5	0.8661	893	894	895	896	897	898	899	900		8	113
1840	55.2	0.9170	901	902	903	904	905	906	907	908		8	121
✳ 1850	55.5	0.9220	909		910		911		912			4	125
✳ 1852	55.56	0.9230	913		914		915		916			4	129
1890	56.7	0.9443	917	918	919	920	921	922	923	924		8	137
1930	57.9	0.9667	925	926	927	928	929	930	931	932		8	145
SKIRT BASE			933			934			935			3	148
NOZZLE BASE ¢			936									1	149

l_s = 1789.60 IN.   ✳ PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

63

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

a. Forces and Moments

Figure 1. - Axis Systems.

SIDESLIP ANGLES

FREESTREAM
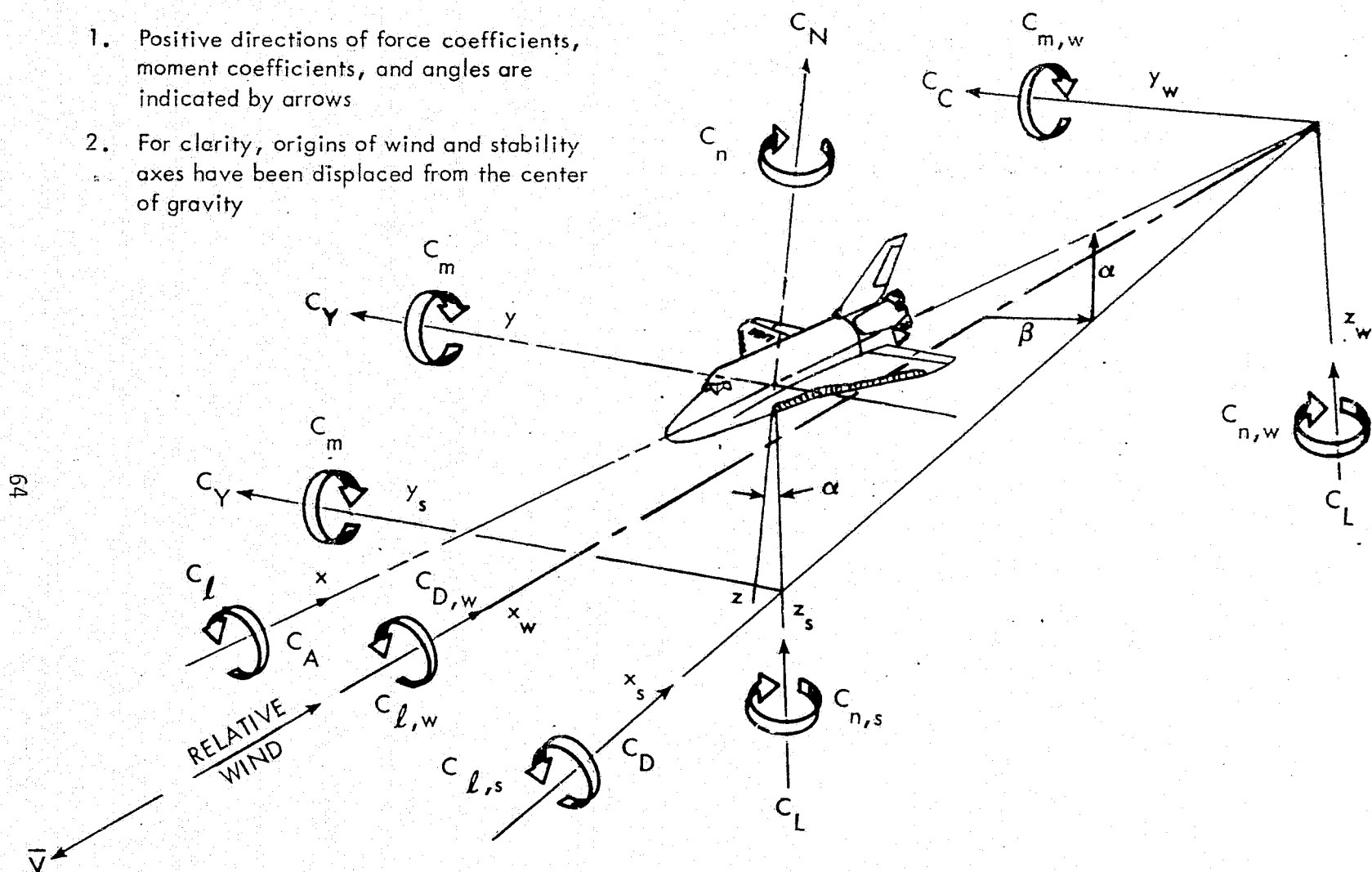
PITCH ANGLES
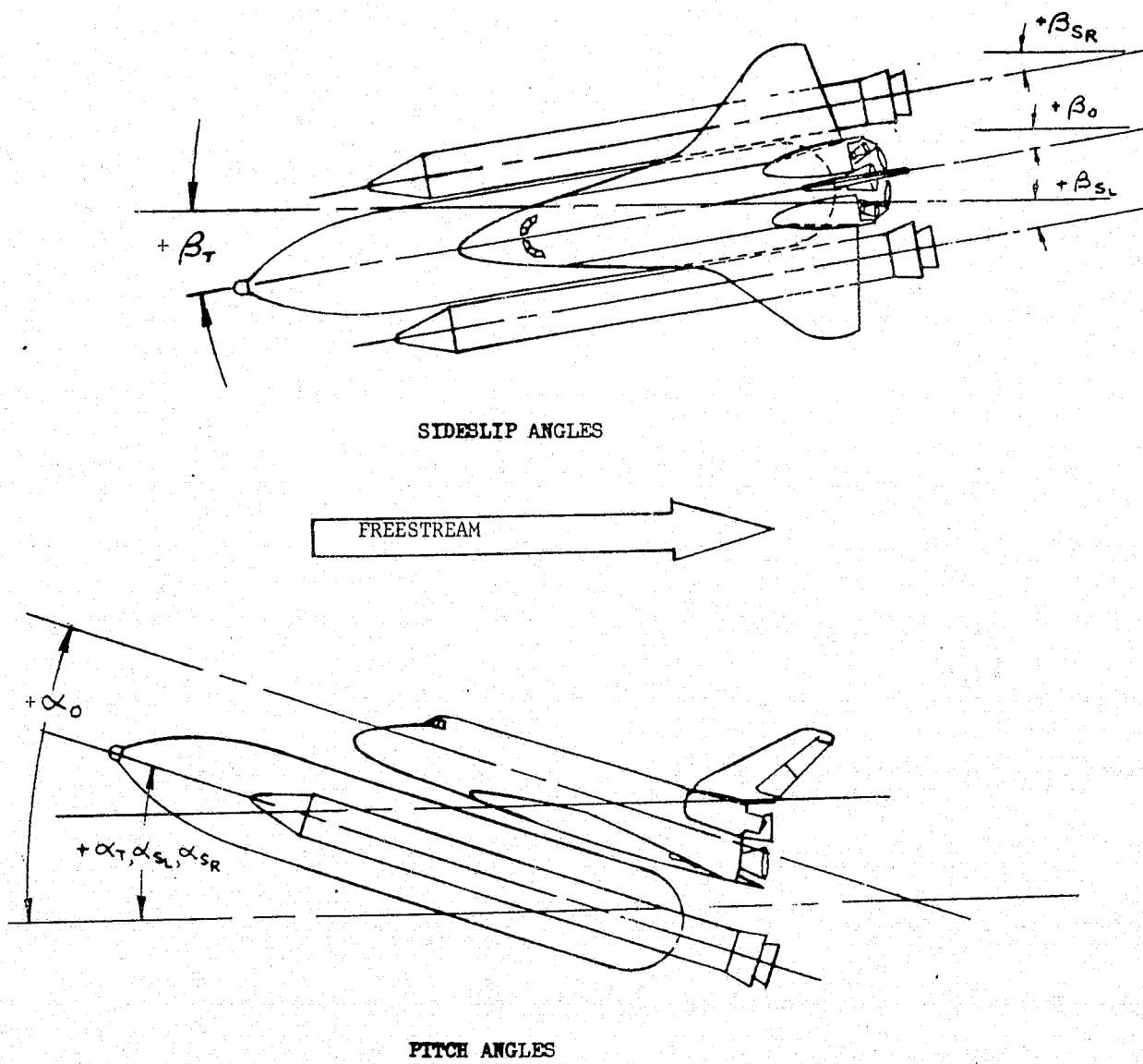
b. Model Attitude Definition

Figure 1. - Continued.

OUTPUT VOLTAGE
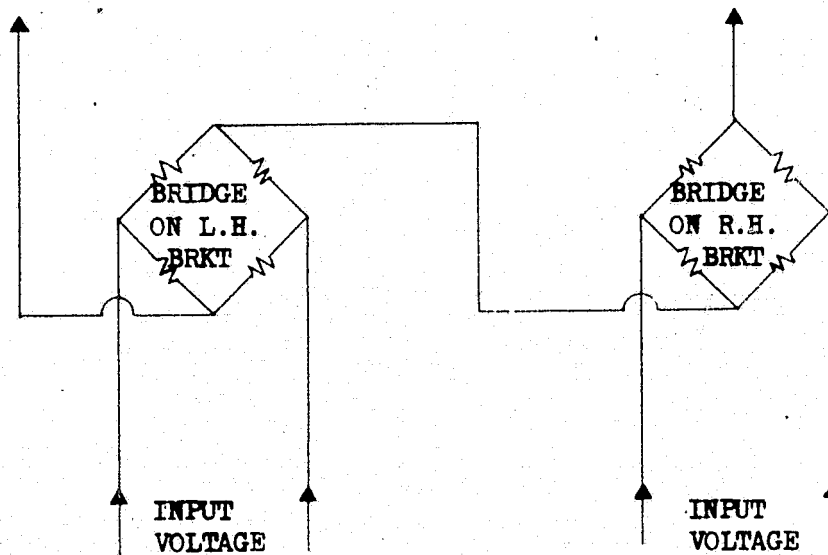
ELEVON HINGE MOMENT WIRING DIAGRAM
TYPICAL FOR INBOARD AND OUTBOARD ELEVONS
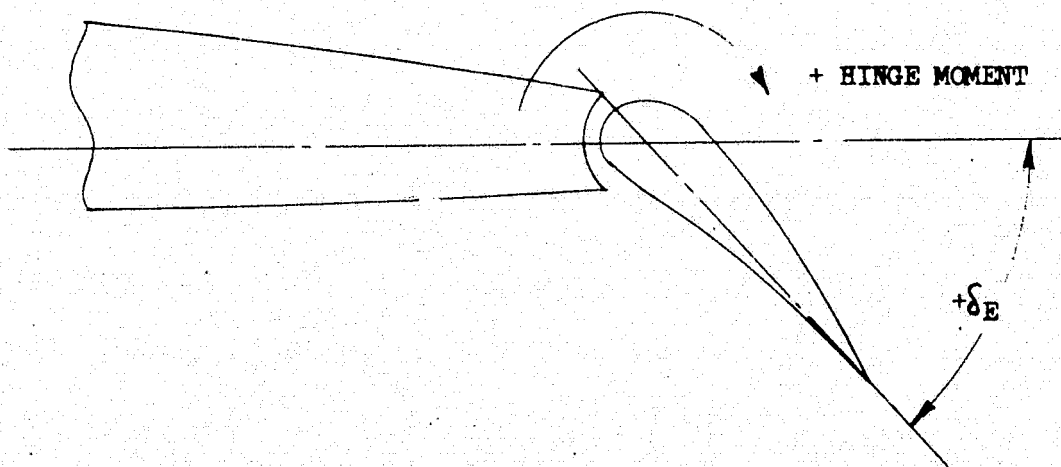
c. Elevon Electrical Hookup and Sign Conventions

Figure 1. - Concluded.

X_T 299.89

67

1467.066

X_0 1702.066

X_0 235

676.11

USA

UNITED STATES OF AMERICA

MRP

336.5

443.11

X_B 200

1789.60

X_B 1989.60

1873.135

X_T 299.89

X_T 2173.025

Z_0 400

Z_T 400

Z_B 0

250.5
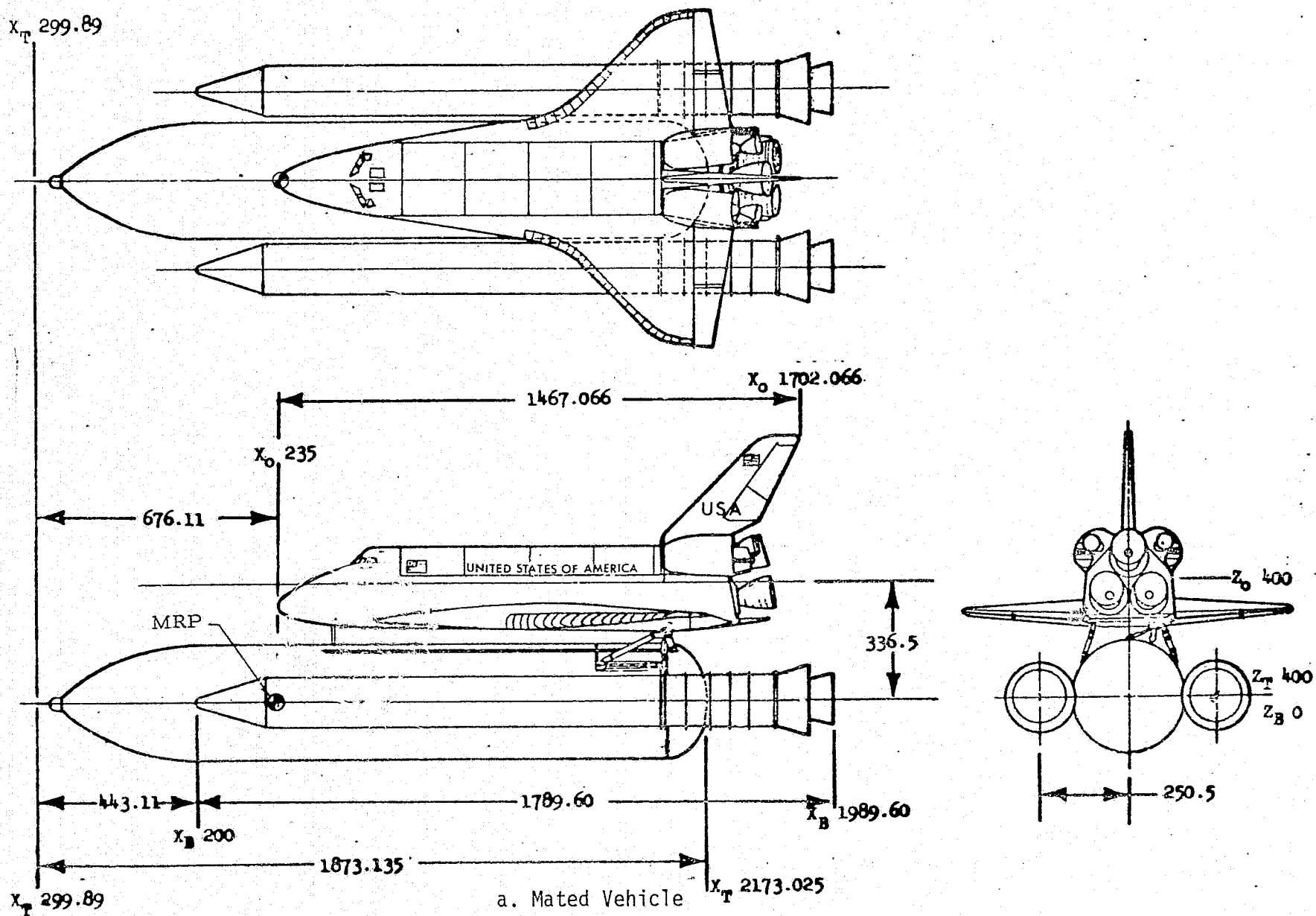
a. Mated Vehicle

Figure 2. - Model sketches.
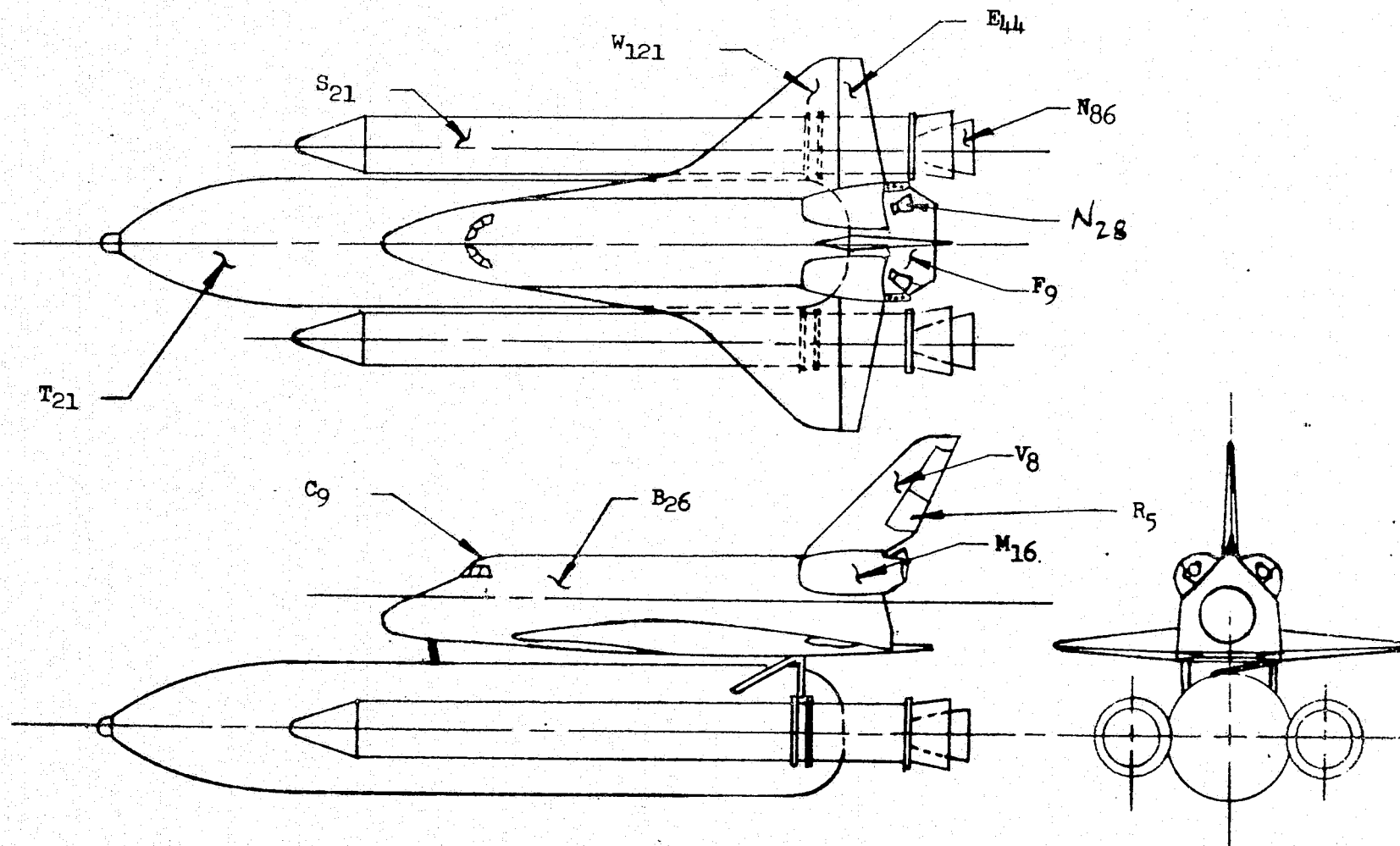
b. LVA Integrated Vehicle Three View

Figure 2. - Continued.
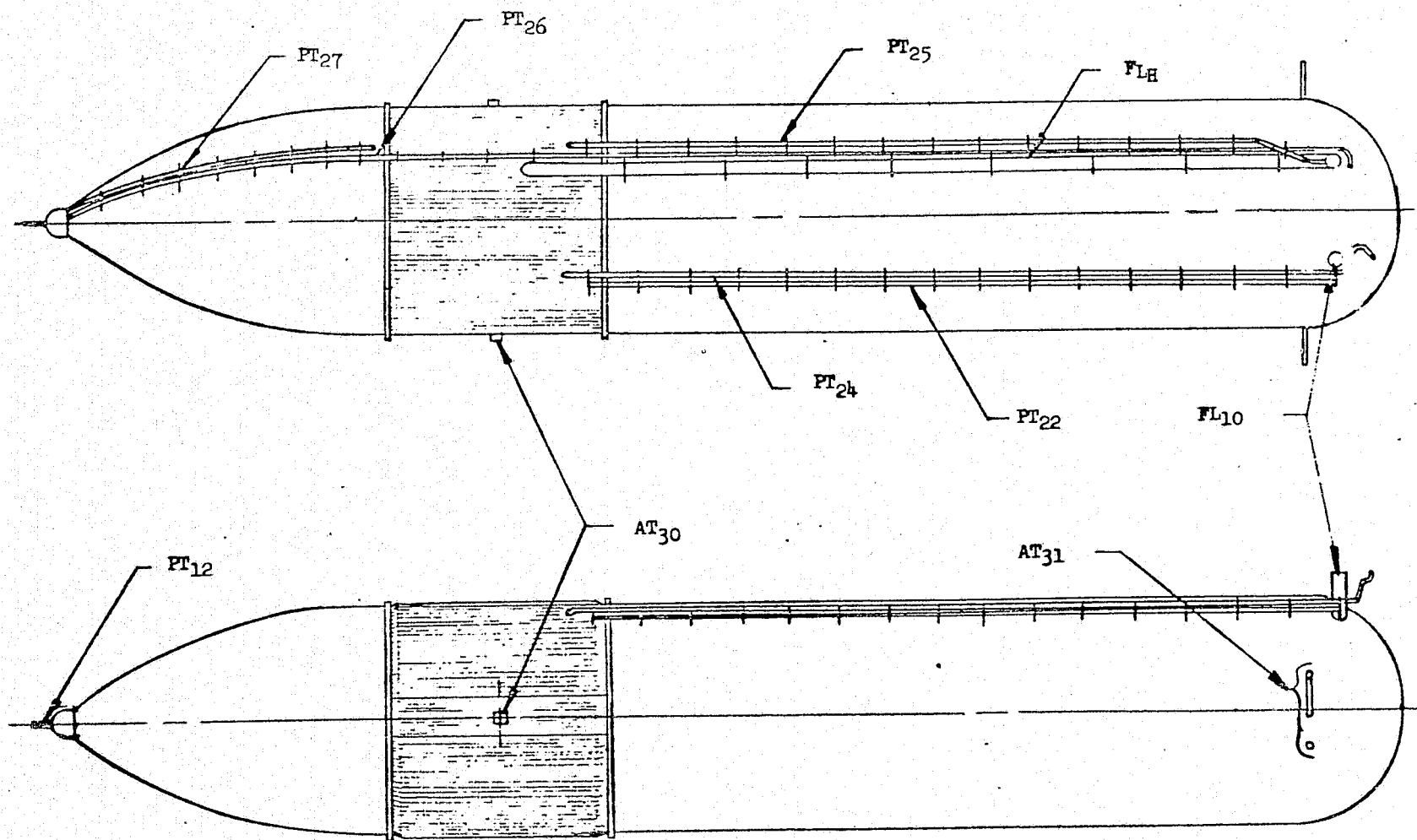
c. (T_{28}) External Tank Protuberances

Figure 2. - Continued.
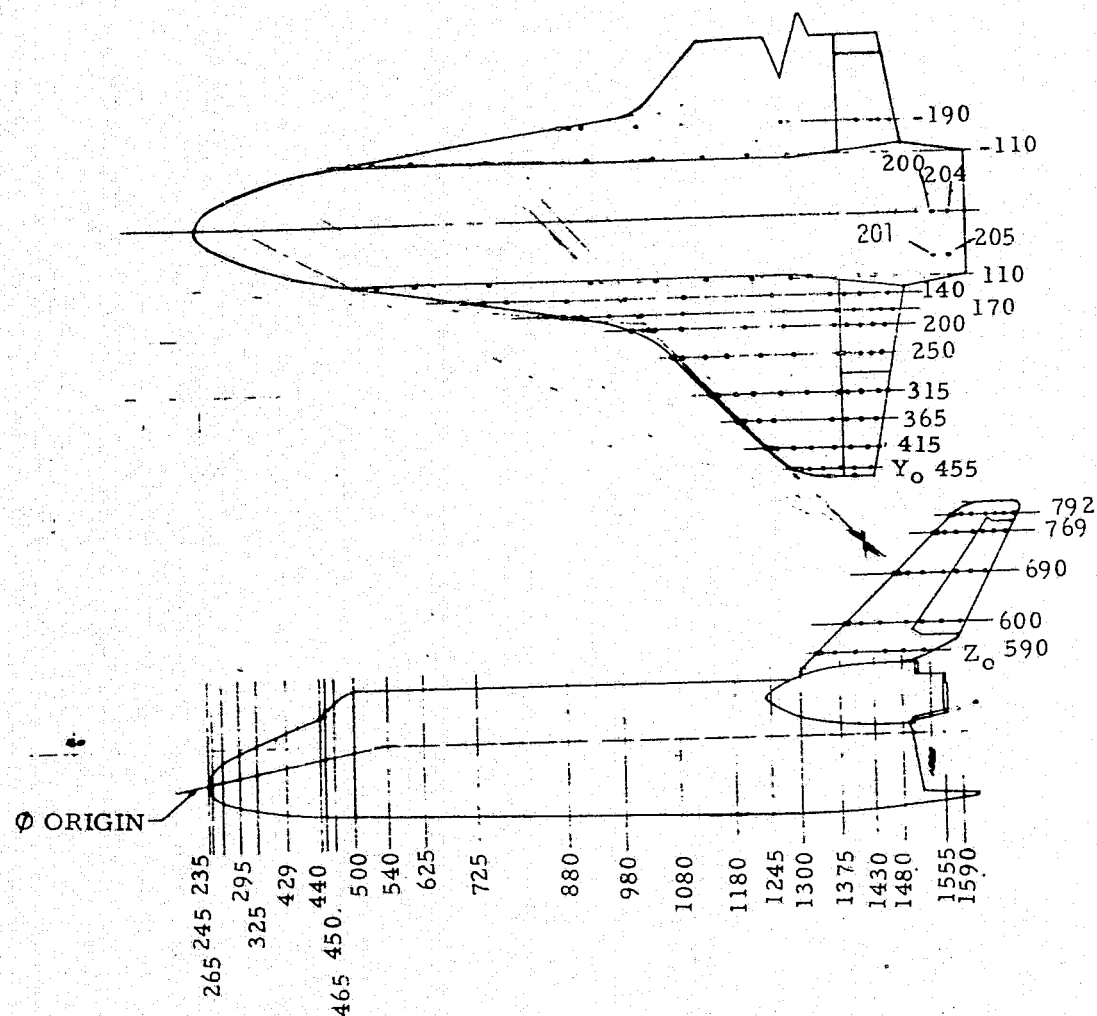
VERTICAL TAIL ORIFICE LOCATION
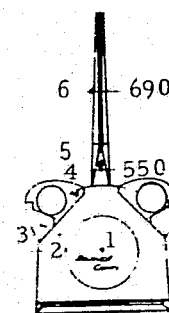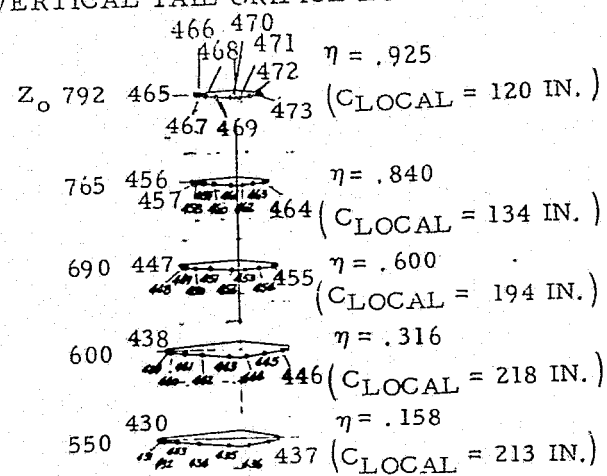
d. Orbiter Upper Wing and Vertical Tail Pressure Tap Locations

Figure 2.   - Continued.

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL

215
209 210 211   212 213 214 | 216
Y_o 110   208 ◄———————————————————► = 235 (C_{LOCAL} = 931 IN.)

Y_o 160 η = 299 (C_{LOCAL} = 781 IN.)

Y_o 170 η = 366 (C_{LOCAL} = 615 IN.)

Y_o 200 η = 427 (C_{LOCAL} = 469 IN.)

Y_o 280 η = 534 (C_{LOCAL} = 395 IN.)

Y_o 315 η = 675 (C_{LOCAL} = 318 IN.)

PRESSURE ORIFICE LOCATION
OF RIGHT WING PANEL Y_o 365 η = 780 = (C_{LOCAL} = 258 IN.)

Y_o
415
412 411 410 409 408   407 406 405
———————————————————►404 η = 887 C_{LOCAL} = 200 IN.)

417
419   416 Y_o 455 η = 972 (C_{LOCAL} = 158 IN.)
418   415
421   420   414 η = 1.00
413
429   428   425 423
426 424   WING TIP
427

└ ELEVON HINGELINE
FUSELAGE STA 1387

Y_o 170

e. Orbiter Wing Pressure Tap Locations

Figure 2. - Continued.

71

FUSELAGE ORIFICE LOCATION
NOTE:
VIEW LOOKING AFT
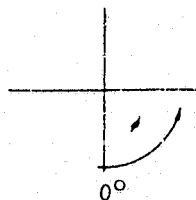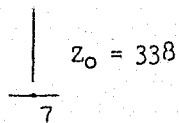
FUS STA 235   FUS STA 245   FUS STA 265   FUS STA 295

$Z_o = 338$

$Z_o = 339.867$

$Z_o = 343.667$

$Z_o = 349.500$
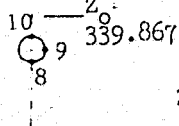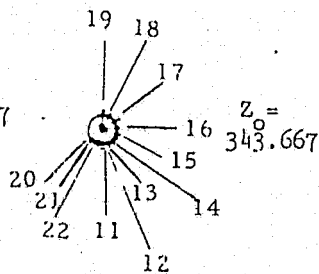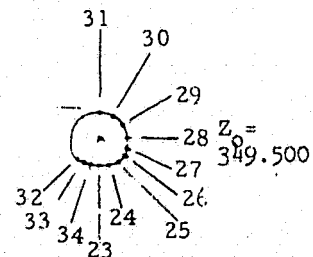
FUS STA 325   FUS STA 380   FUS STA 450

FUS STA 440

$Z_o = 355.067$

$Z_o = 365.700$

59 WINDSHIELD $Z_o = 377.200$

$Z_o = 378.833$
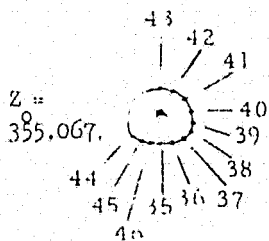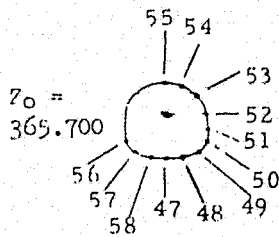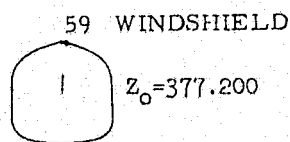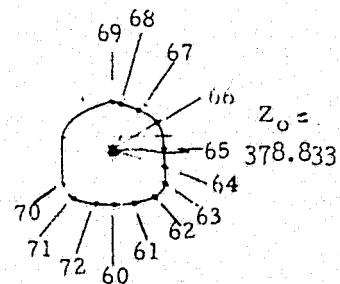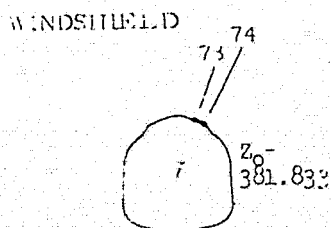
FUS STA 465   FUS STA 500   FUS STA 560   FUS STA 625

WINDSHIELD

WIND-SHIELD

$Z_o = 381.833$

$Z_o = 388.533$

$Z_o = 400$

$Z_o = 400$
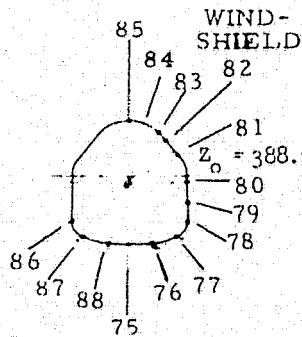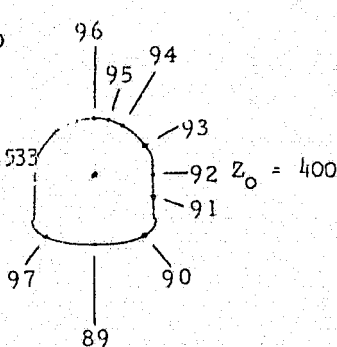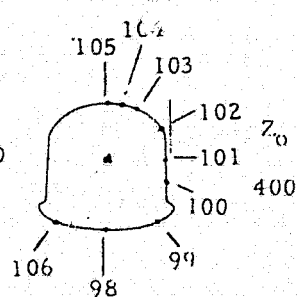
f. Orbiter Forward Fuselage Pressure Tap Locations
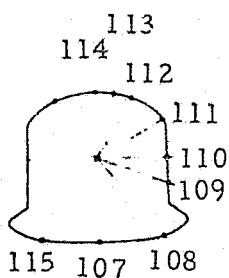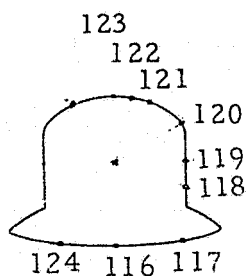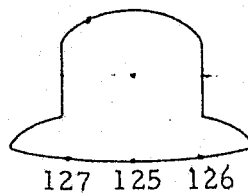
Figure 2. - Continued.

72

FUS STA

113
114
112
111
110
109
115 107 108

FUS STA

123
122
121
120
119
118
124 116 117

FUS STA 980

127 125 126

FUS STA 1080

135
134
133
132
131
130
136 128 129

FUS STA 1180

143 142
141
140
139
144 137 138

FUS STA 1245

154
153
152
151
150
149
148
147
155 145 146

FUS STA 1300

163
164 162
161
160
159
158
165 156 157

FUS STA 1375

174
173
172
171
170
169
168
175 166 167

FUS STA 1430

183
184 182
181
180
179
178
185 176 177

FUS STA 1480

194 193
192
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190
189
188
195 186 187
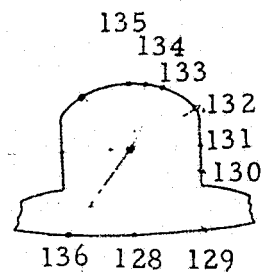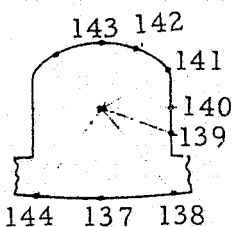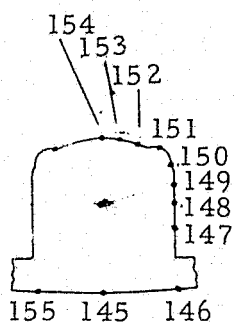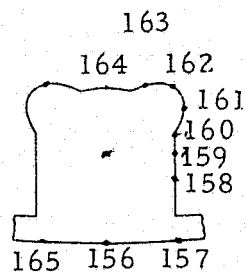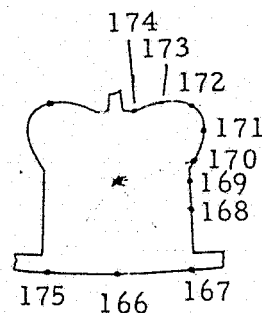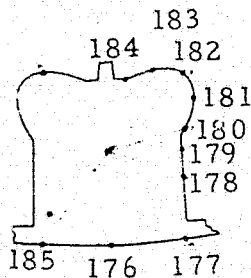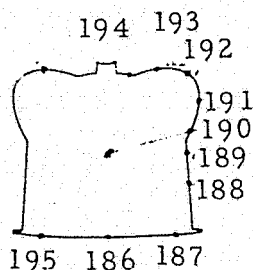
BODY FLAP

FUS STA 1830

FUS STA 555

197 199
196 198 Z_o 400

200 201
————— UPPER ————— LOWER
202 203
204 205 ————— UPPER ————— LOWER
206 207
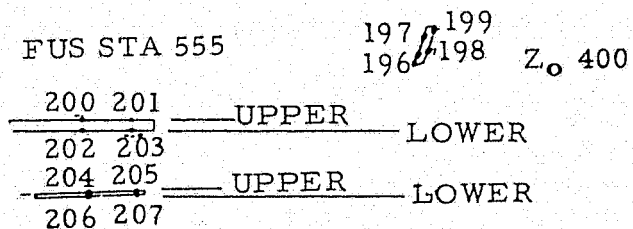
FUS STA 590

g. Orbiter Aft Fuselage Pressure Tap Locations

Figure 2. - Continued.

73
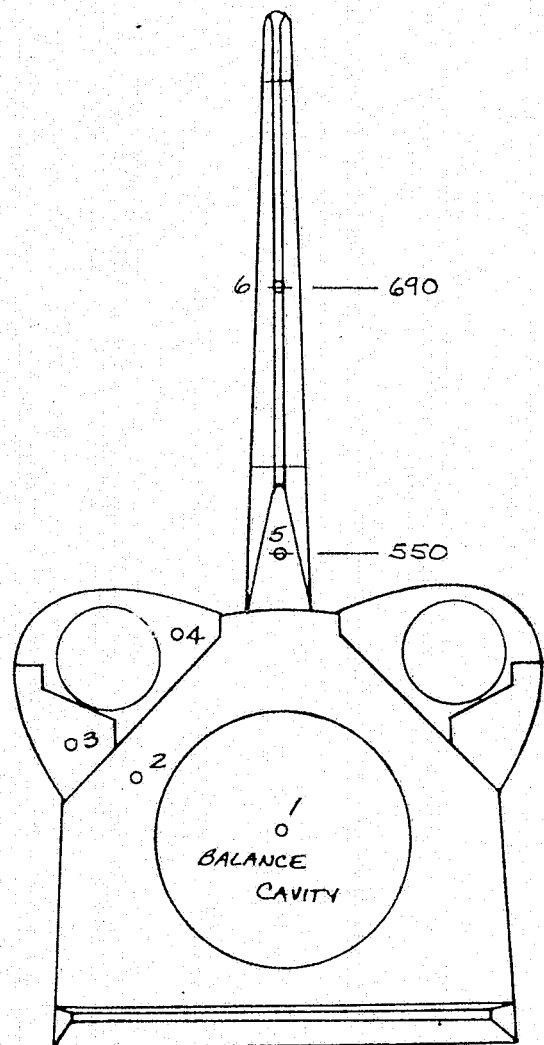
ORBITER BASE PRESSURE TAPS

BODY FLAP PRESSURE TAP NUMBERS

ORBITER~Xo			Ø~DEG.			
FULL SCALE	MODEL SCALE	Xo/Lo	O	40	NO TAPS	Σ NO. TAPS
1555u	46.65		200	201	2	2
1555L	46.65		202	203	2	4
1590u	47.70		204	205	2	6
1590L	47.70		206	207	2	8

h. Orbiter Base Pressure Tap Locations

Figure 2. – Continued.

74

$X_T = 0$

298 329 346 363 403 448 568 688 718 758 808 850 950 1050 1150 1250 1350 1500 1700 1940 2040 2146

VIEW FORWARD
LOOKING AFT
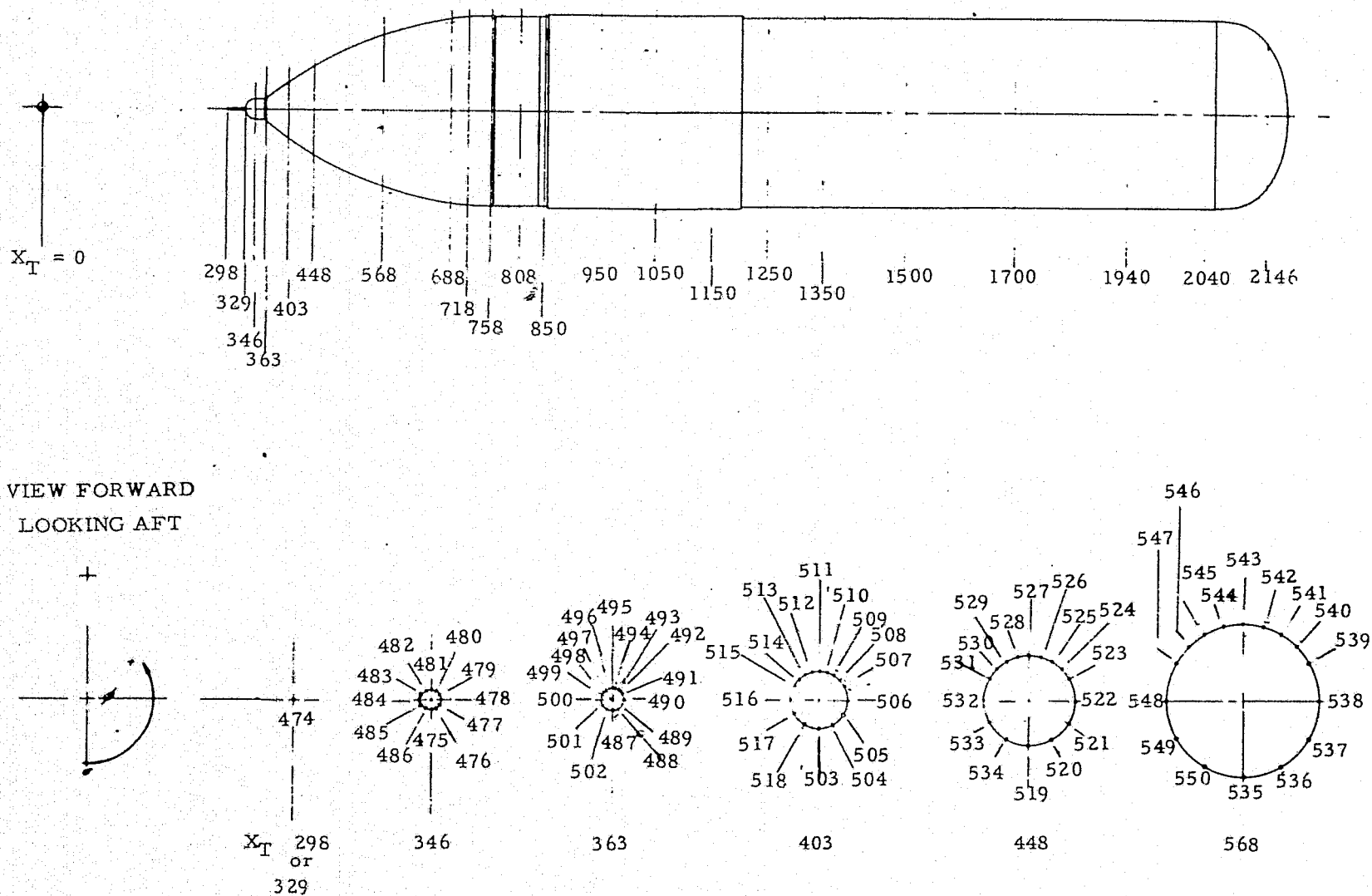
i. External Tank Forward Pressure Tap Locations

Figure 2. – Continued.

686 708 758 808

850 950 1050 1150
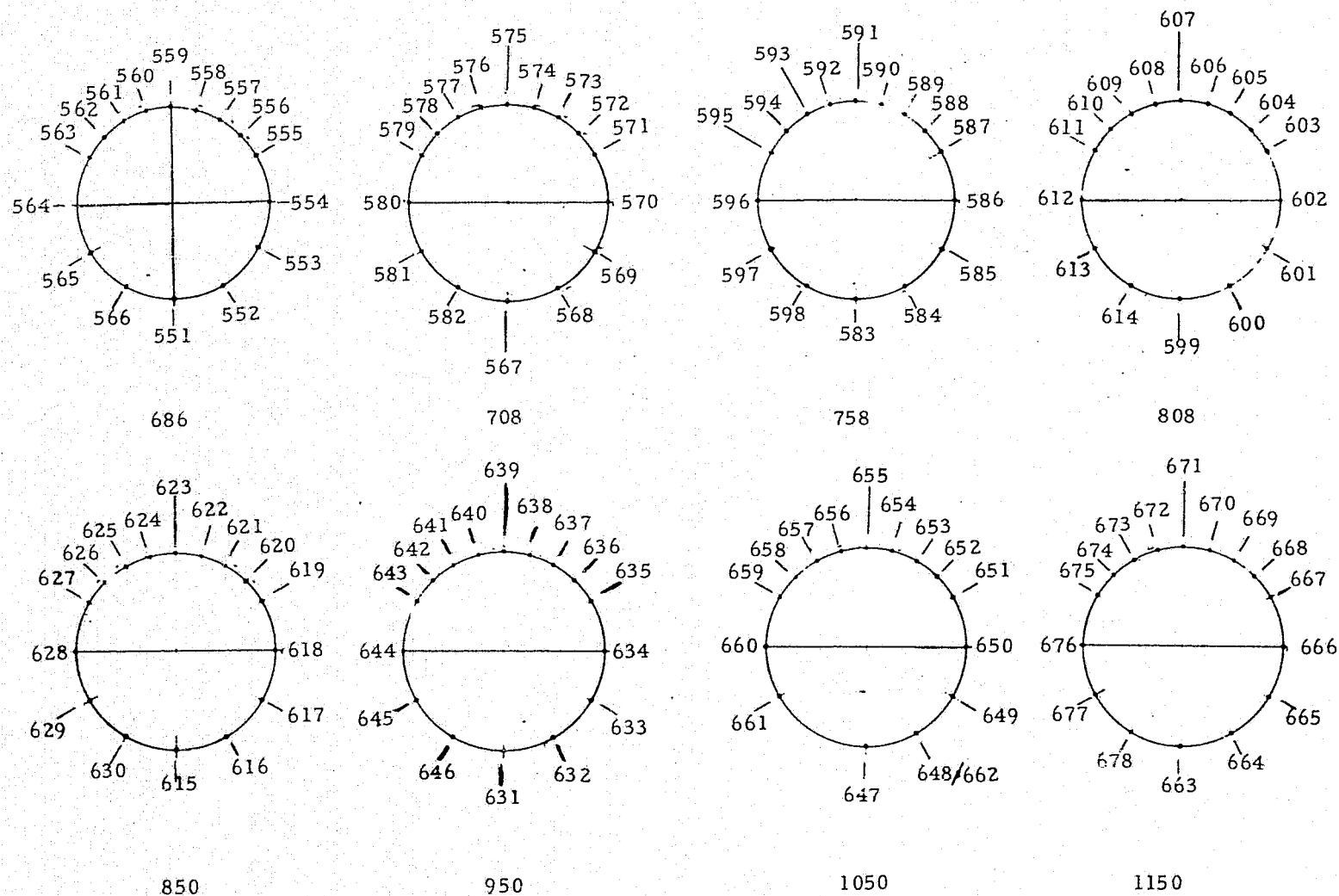
j. External Tank Mid Pressure Tap Locations
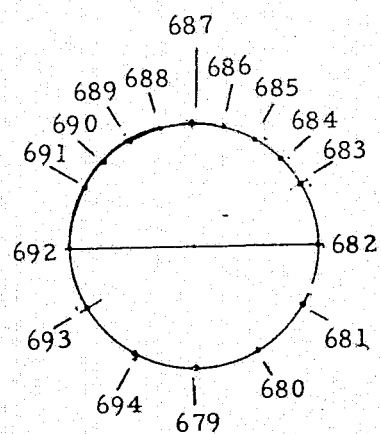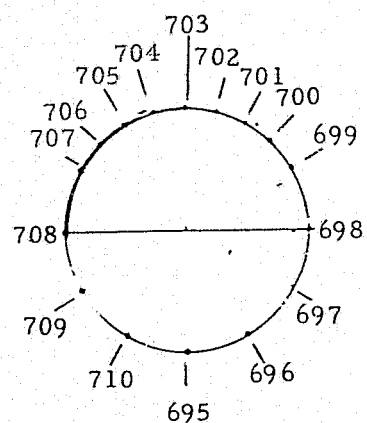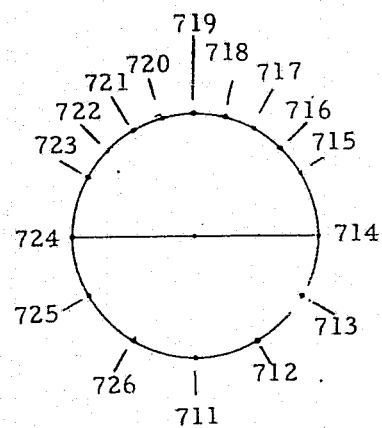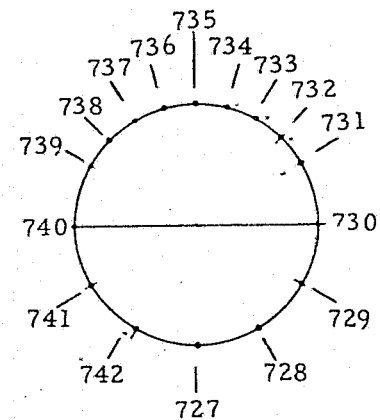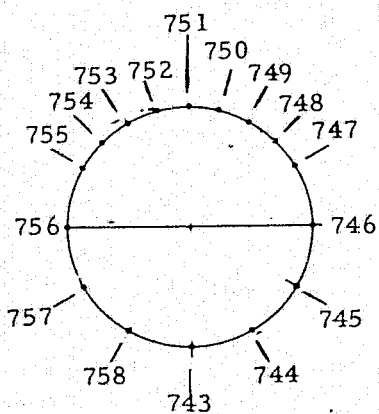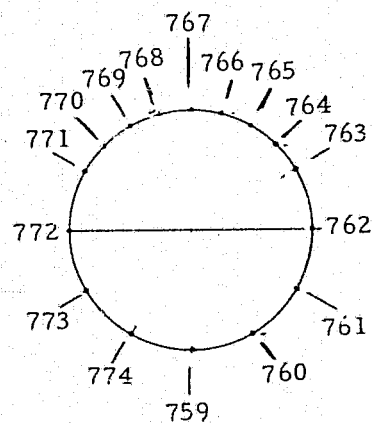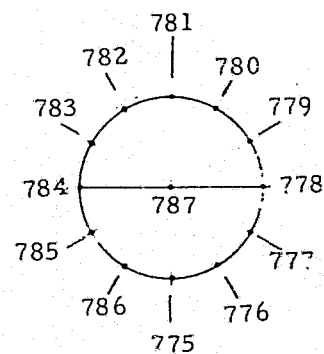
Figure 2. - Continued.

k. External Tank Aft Pressure Tap Locations
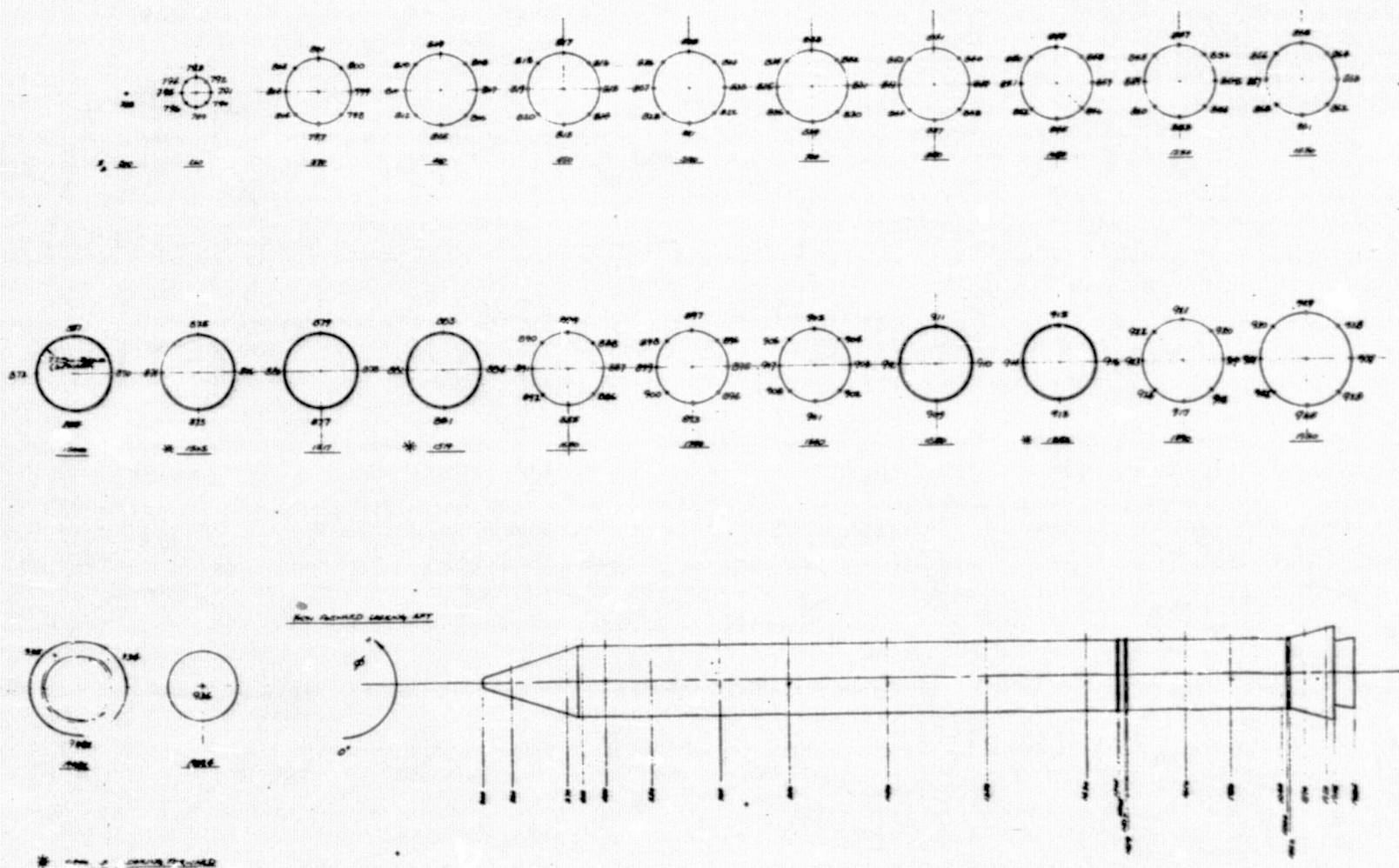
Figure 2. - Continued.

1. SRB Pressure Tap Locations
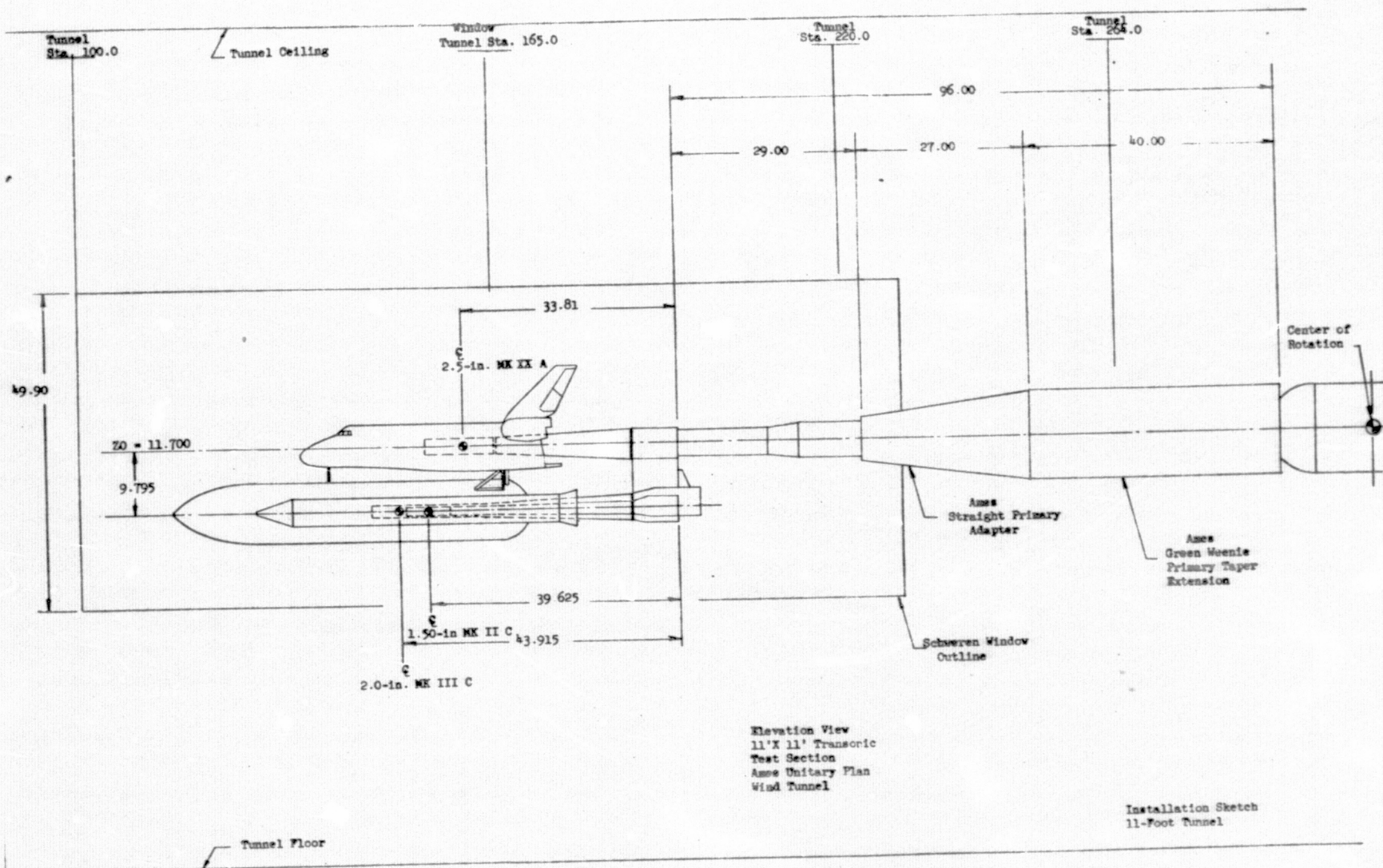
Figure 2. - Continued.

m. Model Installation Side View

Figure 2. - Continued.

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Tunnel Wall

Tunnel
Sta. 165.0

Tunnel Sta.
264.0

Tunnel Sta.
300.0

X_T
0

X_S
0

X_0
0

22.230

16.290

7.05

6.00

10.823

Ames
2.0 in. MK IIIC
Balance Center
X_T = 45.00

7.515

Ames
29" Sting

Rockwell
W-1106A - Adapter

Ames
1.5 in. MK IIC
Balance Center
X_S = 33.00

Rockwell
W-1104-8 - Sting

Rockwell
W-11288 - Sting

Rockwell
SS - A01296   Orbiter Assembly
SS - A01275   LOHT Assembly
SSA -A01276   SRB Assembly

PLAN VIEW

Installation Sketch
11-Foot Tunnel

ns

Tunnel Wall

Center of
Schlieren Window

n. Model Installation Top View

Figure 2. - Continued.
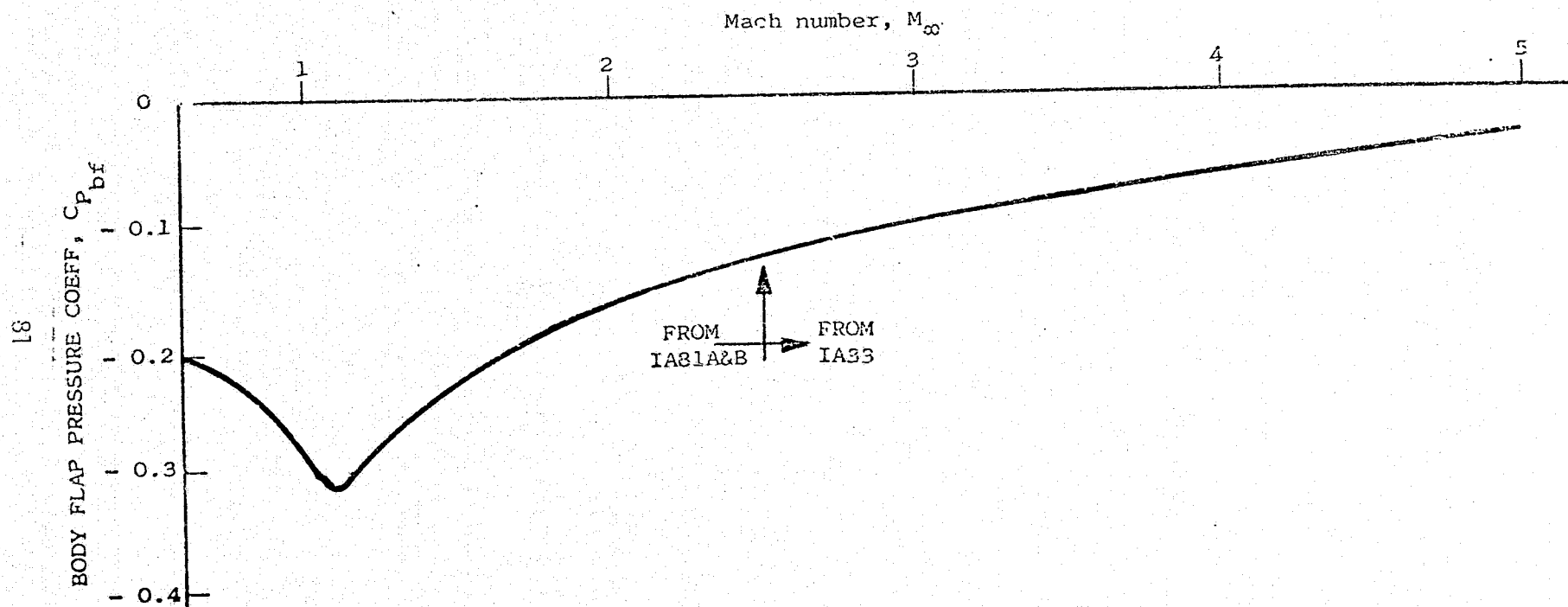
o. Orbiter Body Flap Pressure Coefficients

Figure 2. - Concluded.
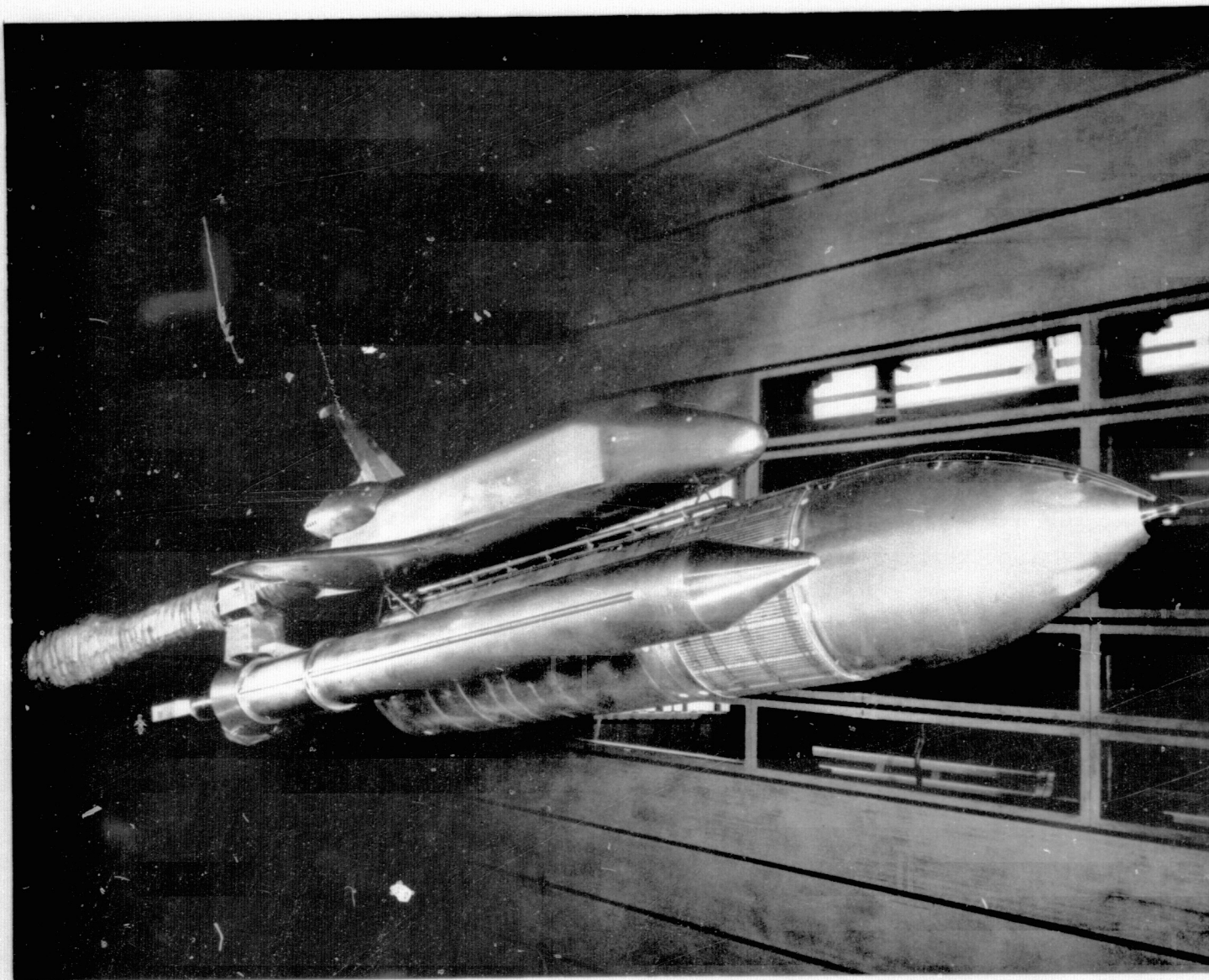
a. Side View

Figure 3. - Model photographs.

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b. Rear View

Figure 3. - Concluded.

APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services

ARC11-019 IA81 LVAP(SBHL UNSEALD) RT. WING TOP   (RETRO1)   (17 OCT 75)

                     REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   3.000
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAO (1) =   .005   ALPHAO(1) =   -6.286

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2244   -.0315
   .010   .0074
   .020   .0355
   .040   .0513
   .041   -.3241
   .113   -.3213
   .163   .2735
   .246   .0655
   .247   -.1063
   .390   -.0308
   .429   -.0086
   .547   .0539
   .637   .1723
   .638   -.0015
   .727   .1934
   .793   .2941
   .798   .0000

BETAO (1) =   -.006   ALPHAO(2) =   -4.148

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2128   -.0096
   .010   .0148
   .020   .0449
   .040   .0571
   .041   -.3223
   .113   -.3022
   .163   .2515
   .246   .0264
   .247   -.1074
   .390   -.1203
   .429   .0057
   .547   .0280
   .637   .1483

ARC11-019 IA81 LVAP(S8HL UNSEALD) RT. WING TOP   (RETRO1)

BETAO (1) =   -.006   ALPHAO(2) =   -4.148

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .638   -.1271
   .727   .1397
   .793   .2626
   .798   .0094

BETAO (1) =   -.021   ALPHAO(3) =   -2.025

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.2196   -.0303
   .010   -.0108
   .020   .0169
   .040   .0301
   .041   -.3317
   .113   -.2918
   .163   .2104
   .246   -.0253
   .247   -.1496
   .390   -.1803
   .429   -.0197
   .547   -.0171
   .637   .1117
   .638   -.1845
   .727   .0975
   .793   .2299
   .798   -.0079

BETAO (1) =   -.030   ALPHAO(4) =   .092

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1752   -.0565
   .010   -.0291
   .020   .0076
   .040   .0251
   .041   -.3063
   .113   -.2447
   .163   .1899
   .246   -.0487

ARC11-019 IA81 LVAP(SSHL UNSEALD) RT. WING TOP   (RETRO1)

BETAO (1) =   -.030   ALPHAO(4) =   .092

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.1683	
.390		-.2130
.429	.0193	
.547	-.0208	
.637		.0317
.638	-.2122	
.727	-.0662	
.793	.1952	
.798		-.0155

BETAO (1) =   -.026   ALPHAO(5) =   2.226

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1585	-.1284
.010		-.0704
.020		-.0266
.040		-.0119
.041	-.2824	
.113	-.2299	
.163		.1474
.246		-.0906
.247	-.2061	
.390		-.2583
.429	.0157	
.547	-.0532	
.637		-.0613
.638	-.2553	
.727	-.2373	
.793	.1753	
.798		-.0363

ARC11-019 IA81 LVAP(SBHL UNSEALD) RT. WING TOP   (RETRO1)

BETAO (1) =   -.018   ALPHAO(6) =   4.337

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1532	-.2298
.010		-.1315
.020		-.0789
.040		-.0578
.041	-.2784	
.113	-.2396	
.163		.1004
.246		-.1361
.247	-.2404	
.390		-.3029
.429	.0094	
.547	-.0862	
.637		-.1612
.638	-.3038	
.727	-.3460	
.793	.1688	
.798		-.0479

BETAO (1) =   -.001   ALPHAO(7) =   6.460

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1426	-.4514
.010		-.2263
.020		-.1421
.040		-.1138
.041	-.2639	
.113	-.2292	
.163		.0597
.246		-.1714
.247	-.2361	
.390		-.3404
.429	.0240	
.547	-.1079	
.637		-.3037
.638	-.3381	
.727	-.3953	
.793	.1252	
.798		-.1010

ARC11-019 IA81 LVAP(SBHL UNSEALD) RT. WING TOP　　　　　　　(RETRO1)

BETAO (1) =　　　.009　ALPHAO(8) =　　8.583

SECTION (1)RIGHT WING TOP　　　　　　　　　DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1365	-.6037
.010		-.4830
.020		-.3125
.040		-.2377
.041	-.2591	
.113	-.2288	
.163		.0005
.246		-.2049
.247	-.2327	
.390		-.3813
.429	.0288	
.547	-.1372	
.637		-.4254
.638	-.3723	
.727	-.4279	
.793	.0716	
.798		-.1265

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETRO2)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .500   RN/FT =   3.200
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAO (1) =   -.006   ALPHAO(1) =   -6.155

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1615   .0392
   .010   .1116
   .020   .1353
   .040   .1484
   .041   -.0946
   .113   -.0353
   .163   .1895
   .246   -.0044
   .247   .0429
   .390   -.1295
   .429   .0785
   .547   -.0342
   .637   -.0371
   .638   -.1081
   .727   -.0153
   .793   .1109
   .798   -.0014

BETAO (1) =   -.020   ALPHAO(2) =   -4.065

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1672   .0749
   .010   .1151
   .020   .1286
   .040   .1400
   .041   -.1125
   .113   -.0559
   .163   .1389
   .246   -.0761
   .247   .0288
   .390   -.1847
   .429   .0500
   .547   -.0785
   .637   -.0582

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING TOP   (RETRO2)

BETAO (1) =   -.020   ALPHAO(2) =   -4.065

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .638   -.1453
    .727   -.0373
    .793   .0939
    .798   .0024

BETAO (1) =   -.028   ALPHAO(3) =   -1.995

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1730   .0877
    .010   .1012
    .020   .1132
    .040   .1176
    .041   -.1303
    .113   -.0750
    .163   .0818
    .246   -.1433
    .247   .0048
    .390   -.2396
    .429   .0223
    .547   -.1267
    .637   -.0703
    .638   -.1832
    .727   -.0594
    .793   .0877
    .798   -.0089

BETAO (1) =   -.031   ALPHAO(4) =   .078

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1801   .0656
    .010   .0744
    .020   .0856
    .040   .0886
    .041   -.1478
    .113   -.0883
    .163   .0176
    .246   -.2083

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR02)

BETAO (1) =   -.031   ALPHAO(4) =   .078

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.0122	
.390		-.2879
.429	-.0064	
.547	-.1649	
.637		-.0835
.638	-.2222	
.727	-.0744	
.793	.0769	
.798		-.0103

BETAO (1) =   -.032   ALPHAO(5) =   2.167

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1876	.0201
.010		.0398
.020		.0441
.040		.0456
.041	-.1675	
.113	-.1030	
.163		-.0502
.246		-.2885
.247	-.0309	
.390		-.3417
.429	-.0382	
.547	-.2193	
.637		-.0874
.638	-.2568	
.727	-.0928	
.793	.0788	
.798		-.0081

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR02)

BETAO (1) =   -.026   ALPHAO(6) =   4.242

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1939	-.0592
.010		-.0209
.020		-.0071
.040		.0035
.041	-.1780	
.113	-.1092	
.163		-.1185
.246		-.3617
.247	-.0431	
.390		-.3912
.429	-.0616	
.547	-.2648	
.637		-.0952
.638	-.2907	
.727	-.1032	
.793	.0876	
.798		-.0132

BETAO (1) =   -.007   ALPHAO(7) =   6.338

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1961	-.1578
.010		-.0949
.020		-.0713
.040		-.0560
.041	-.1939	
.113	-.1342	
.163		-.2028
.246		-.4401
.247	-.0594	
.390		-.4347
.429	-.0897	
.547	-.3233	
.637		-.1141
.638	-.3375	
.727	-.1109	
.793	.1035	
.798		-.0176

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETRO3)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH =	.900	RN/FT =	3.500
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	55.000

BETAO (1) =   .027   ALPHAO(1) = -6.277

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.5021   .0939
.010   .1482
.020   .1726
.040   .1830
.041   -.4560
.113   -.0306
.163   .2484
.246   .0406
.247   .0752
.390   -.1161
.429   .1187
.547   .0118
.637   -.0388
.638   -.0979
.727   -.0008
.793   .1092
.798   -.0710

BETAO (1) =   .004   ALPHAO(2) = -4.157

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.5005   .1152
.010   .1450
.020   .1625
.040   .1734
.041   -.5146
.113   -.0393
.163   .2006
.246   -.0325
.247   .0496
.390   -.1965
.429   .0901
.547   -.0490
.637   -.0686

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR03)

BETAO (1) =   .004   ALPHAO(2) =   -4.157

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .638   -.1703
   .727   -.0349
   .793   .0871
   .798   -.0769

BETAO (1) =   -.020   ALPHAO(3) =   -2.045

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.4913   .1179
   .010   .1390
   .020   .1497
   .040   .1548
   .041   -.5166
   .113   -.0576
   .163   .1512
   .246   -.0962
   .247   .0383
   .390   -.2828
   .429   .0716
   .547   -.0955
   .637   -.0848
   .638   -.2529
   .727   -.0671
   .793   .0660
   .798   -.0847

BETAO (1) =   -.030   ALPHAO(4) =   .070

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.4360   .0915
   .010   .1058
   .020   .1212
   .040   .1217
   .041   -.5001
   .113   -.0966
   .163   .0995
   .246   -.1560

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETRO3)

BETAO (1) =   -.030   ALPHAO(4) =   .070

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .247   .0188
    .390   -.3615
    .429   .0464
    .547   -.1548
    .637   -.1050
    .638   -.3509
    .727   -.1017
    .793   .0621
    .798   -.0839

BETAO (1) =   -.035   ALPHAO(5) =   2.209

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.4091   .0308
    .010   .0603
    .020   .0808
    .040   .0885
    .041   -.4750
    .113   -.1127
    .163   .0432
    .246   -.2119
    .247   .0019
    .390   -.4287
    .429   .0298
    .547   -.2064
    .637   -.1277
    .638   -.4332
    .727   -.1577
    .793   .0497
    .798   -.0895

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING TOP   (RETRO3)

BETAO (1) =   -.028   ALPHAO(6) =   4.323

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3931	-.0312
.010		.0171
.020		.0448
.040		.0511
.041	-.4491	
.113	-.1363	
.163		-.0075
.246		-.2593
.247	-.0097	
.390		-.4894
.429	.0151	
.547	-.2568	
.637		-.1400
.638	-.4979	
.727	-.2052	
.793	.0766	
.798		-.0718

BETAO (1) =   .066   ALPHAO(7) =   6.247

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3699	-.1339
.010		-.0399
.020		-.0066
.040		.0047
.041	-.4308	
.113	-.1679	
.163		-.0611
.246		-.3028
.247	-.0314	
.390		-.5464
.429	.0006	
.547	-.2905	
.637		-.1423
.638	-.5613	
.727	-.2396	
.793	.0908	
.798		-.1067

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETRO4)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   3.000
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAO (1) =   .066   ALPHAO(1) =   -4.854

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2142   -.0157
   .010   .0167
   .020   .0460
   .040   .0576
   .041   -.3178
   .113   -.3082
   .163   .2625
   .246   .0508
   .247   -.0981
   .390   -.0917
   .429   .0060
   .547   .0461
   .637   .1652
   .638   -.0786
   .727   .1733
   .793   .2772
   .798   .0088

BETAO (1) =   .066   ALPHAO(2) =   -3.849

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2143   -.0079
   .010   .0192
   .020   .0470
   .040   .0620
   .041   -.3239
   .113   -.3014
   .163   .2516
   .246   .0293
   .247   -.1094
   .390   -.1236
   .429   .0043
   .547   .0248
   .637   .1450

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR04)

BETAO (1) =   .066   ALPHAO(2) =   -3.849

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1266	
.727	.1366	
.793	.2556	
.798		.0011

BETAO (1) =   .067   ALPHAO(3) =   -1.842

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2095	-.0210
.010		-.0012
.020		.0269
.040		.0406
.041	-.3213	
.113	-.2764	
.163		.2198
.246		-.0088
.247	-.1373	
.390		-.1688
.429	.0078	
.547	.0035	
.637		.1019
.638	-.1720	
.727	.0553	
.793	.2177	
.798		-.0117

BETAO (1) =   .067   ALPHAO(4) =   .164

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1764	-.0602
.010		-.0346
.020		.0032
.040		.0202
.041	-.3081	
.113	-.2467	
.163		.1885
.246		-.0420

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR04)

BETAO (1) =   .067   ALPHAO(4) =   .164

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .247   -.1728
  .390   -.2167
  .429   .0134
  .547   -.0247
  .637   .0268
  .638   -.2185
  .727   -.0633
  .793   .1921
  .798   -.0180

BETAO (1) =   .067   ALPHAO(5) =   2.192

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1606 -.1282
  .010   -.0680
  .020   -.0282
  .040   -.0128
  .041   -.2823
  .113   -.2307
  .163   .1443
  .246   -.0816
  .247   -.2049
  .390   -.2601
  .429   .0168
  .547   -.0513
  .637   -.0647
  .638   -.2525
  .727   -.2441
  .793   .1732
  .798   -.0329

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR04)

BETAO (1) =   .066   ALPHAO(6) =   4.200

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1507	-.2376
.010		-.1353
.020		-.0785
.040		-.0590
.041	-.2718	
.113	-.2368	
.163		.0988
.246		-.1163
.247	-.2381	
.390		-.3057
.429	.0150	
.547	-.0803	
.637		-.1540.
.638	-.2991	
.727	-.3475	
.793	.1624	
.798		-.0483

BETAO (1) =   .066   ALPHAO(7) =   5.218

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1502	-.3229
.010		-.1748
.020		-.1130
.040		-.0866
.041	-.2742	
.113	-.2377	
.163		.0742
.246		-.1408
.247	-.2405	
.390		-.3335
.429	.0103	
.547	-.0962	
.637		-.2189
.638	-.3252	
.727	-.3827	
.793	.1535	
.798		-.0694

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETRO5)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

```
SREF  =  2690.0000 SQ.FT.    XMRP  =   976.0000 IN. XT          MACH    =    1.250    RN/FT  =     2.250
LREF  =  1297.0000 INCHES    YMRP  =      .0000 IN. YT          ELV-IB  =     .000    ELV-OB =      .000
BREF  =  1297.0000 INCHES    ZMRP  =   400.0000 IN. ZT          RUDDER  =     .000    SPDBRK =    55.000
SCALE =      .0300 SCALE
```

BETAO (1) =   .069   ALPHAO(1) =   -5.882

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1090	-.1799
.010		-.1125
.020		-.0702
.040		-.0469
.041	-.1926	
.113	-.2314	
.163		.1111
.246		.0224
.247	-.1312	
.390		-.0768
.429	-.0924	
.547	-.0253	
.637		.1115
.638	-.1068	
.727	.0688	
.793	.2419	
.798		.0742

BETAO (1) =   .070   ALPHAO(2) =   -3.880

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1031	-.1470
.010		-.1022
.020		-.0691
.040		-.0501
.041	-.1877	
.113	-.2448	
.163		.0847
.246		-.0088
.247	-.1734	
.390		-.1101
.429	-.1209	
.547	-.0396	
.637		.0487

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR05)

BETAO (1) =   .070   ALPHAO(2) =   -3.880

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1308	
.727	-.0084	
.793	.2019	
.798		.0467

BETAO (1) =   .070   ALPHAO(3) =   -1.873

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1308	-.0822
.010		-.0673
.020		-.0444
.040		-.0310
.041	-.1720	
.113	-.2575	
.163		.0684
.246		-.0383
.247	-.2124	
.390		-.1448
.429	-.1203	
.547	-.0437	
.637		-.0377
.638	-.1562	
.727	-.1413	
.793	.1707	
.798		.0138

BETAO (1) =   .070   ALPHAO(4) =   .113

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1584	-.0680
.010		-.0591
.020		-.0416
.040		-.0340
.041	-.1879	
.113	-.2669	
.163		.0415
.246		-.0765

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING TOP   (RETR05)

BETAO (1) =   .070   ALPHAO(4) =   .113

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .247   -.2320
  .390   -.1889
  .429   -.1190
  .547   -.0578
  .637   -.1743
  .638   -.1895
  .727   -.2352
  .793   .1164
  .798   -.0102

BETAO (1) =   .070   ALPHAO(5) =   2.177

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.2216   -.1295
  .010   -.0946
  .020   -.0673
  .040   -.0568
  .041   -.2099
  .113   -.2648
  .163   .0273
  .246   -.1076
  .247   -.2016
  .390   -.2381
  .429   -.1111
  .547   -.0787
  .637   -.3076
  .638   -.2245
  .727   -.2724
  .793   .0438
  .798   -.0227

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR05)

BETAO (1) =   .070   ALPHAO(6) =   4.185

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2397	-.2359
.010		-.1626
.020		-.1249
.040		-.1093
.041	-.2200	
.113	-.2470	
.163		-.0148
.246		-.1464
.247	-.1728	
.390		-.2784
.429	-.1141	
.547	-.0916	
.637		-.3707
.638	-.2552	
.727	-.3044	
.793	-.0015	
.798		-.0772

BETAO (1) =   .069   ALPHAO(7) =   6.212

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1743	-.3401
.010		-.2876
.020		-.2233
.040		-.1902
.041	-.2026	
.113	-.2360	
.163		-.0683
.246		-.1806
.247	-.1695	
.390		-.3188
.429	-.1342	
.547	-.1094	
.637		-.4247
.638	-.2892	
.727	-.3385	
.793	-.0482	
.798		-.1328

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING TOP   (RETR05)

BETAO (1) =   .069   ALPHAO(8) =   7.214

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1526	-.3716
.010		-.3221
.020		-.2545
.040		-.2256
.041	-.1914	
.113	-.2180	
.163		-.1035
.246		-.2009
.247	-.1609	
.390		-.3332
.429	-.1406	
.547	-.1162	
.637		-.4414
.638	-.2983	
.727	-.3436	
.793	-.0756	
.798		-.1524

                  REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .600   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.048   BETAO (1) =   -.007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1777   .0225
   .010   .0892
   .020   .1104
   .040   .1236
   .041   -.1107
   .113   -.0536
   .163   .1538
   .246   -.0474
   .247   .0219
   .390   -.1803
   .429   .0467
   .547   -.0769
   .637   -.1315
   .638   -.1630
   .727   -.0918
   .793   .0172
   .798   -.2725

ALPHAO(2) =   -4.013   BETAO (1) =   -4.061

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2234   .0321
   .010   .0574
   .020   .0711
   .040   .0795
   .041   -.1765
   .113   -.1017
   .163   .0921
   .246   -.1122
   .247   -.0127
   .390   -.2402
   .429   .0063
   .547   -.1270
   .637   -.1934

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR06)

ALPHAO(2) =   -4.013   BETAO (1) =   -4.061

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .638   -.2265
    .727   -.1523
    .793   -.0427
    .798   -.3217

ALPHAO(2) =   -3.984   BETAO (2) =   .011

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .000   -.1886   .0574
    .010   .0869
    .020   .0995
    .040   .1090
    .041   -.1397
    .113   -.0766
    .163   .1032
    .246   -.1203
    .247   -.0009
    .390   -.2428
    .429   .0127
    .547   -.1271
    .637   -.1518
    .638   -.2096
    .727   -.1161
    .793   .0007
    .798   -.2806

ALPHAO(2) =   -3.968   BETAO (3) =   4.081

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .000   -.1407   .0777
    .010   .1242
    .020   .1400
    .040   .1453
    .041   -.0819
    .113   -.0428
    .163   .1057
    .246   -.1335

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR06)

ALPHAO(2) =   -3.968   BETAO (3) =   4.081

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .247   .0181
    .390   -.2460
    .429   .0266
    .547   -.1216
    .637   -.1097
    .638   -.1931
    .727   -.0823
    .793   .0408
    .798   -.2375

ALPHAO(3) =   .074   BETAO (1) =   -6.097

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.2753   -.0493
    .010   -.0229
    .020   -.0055
    .040   -.0055
    .041   -.2232
    .113   -.1386
    .163   -.0250
    .246   -.2005
    .247   -.0486
    .390   -.3197
    .429   -.0434
    .547   -.2006
    .637   -.2311
    .638   -.2895
    .727   -.1969
    .793   -.0777
    .798   -.3172

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO6)

ALPHAO(3) =   .072   BETAO (2) =   -4.067

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2552	-.0348
.010		.0000
.020		.0115
.040		.0168
.041	-.2089	
.113	-.1347	
.163		-.0200
.246		-.2326
.247	-.0490	
.390		-.3367
.429	-.0448	
.547	-.2115	
.637		-.2152
.638	-.2962	
.727	-.1842	
.793	-.0558	
.798		-.3064

ALPHAO(3) =   .076   BETAO (3) =   -.005

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640.

X/CW		
.000	-.1939	.0462
.010		.0488
.020		.0599
.040		.0609
.041	-.1701	.
.113	-.1116	
.163		-.0108
.246		-.2540
.247	-.0345	
.390		-.3442
.429	-.0414	
.547	-.2118	
.637		-.1759
.638	-.2846	
.727	-.1522	
.793	-.0124	
.798		-.2693

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR06)

ALPHAO(3) =   .087   BETAO (4) =   4.063

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1404   .0989
.010   .0867
.020   .0899
.040   .0925
.041   -.1199
.113   -.0751
.163   -.0176
.246   -.2680
.247   -.0134
.390   -.3597
.429   -.0239
.547   -.2068
.637   -.1346
.638   -.2695
.727   -.1209
.793   .0293
.798   -.2294

ALPHAO(3) =   .090   BETAO (5) =   6.100

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1069   .1201
.010   .1042
.020   .1127
.040   .1100
.041   -.0905
.113   -.0529
.163   -.0200
.246   -.2716
.247   .0022
.390   -.3487
.429   -.0184
.547   -.2001
.637   -.1035
.638   -.2563
.727   -.0908
.793   .0593
.798   -.2031

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO6)

ALPHAO(4) =   4.240   BETAO (1) =   -4.061

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2741	-.1871
.010		-.0952
.020		-.0710
.040		-.0641
.041	-.2356	
.113	-.1559	
.163		-.1485
.246		-.3549
.247	-.0746	
.390		-.4240
.429	-.0868	
.547	-.2958	
.637		-.2361
.639	-.3639	
.727	-.2039	
.793	-.0493	
.798		-.3061

ALPHAO(4) =   4.239   BETAO (2) =   -.008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2085	-.0851
.010		-.0478
.020		-.0331
.040		-.0226
.041	-.1964	
.113	-.1371	
.163		-.1507
.246		-.3906
.247	-.0652	
.390		-.4462
.429	-.0888	
.547	-.3087	
.637		-.1890
.638	-.3560	
.727	-.1827	
.793	-.0048	
.798		-.2641

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO6)

ALPHAO(4) =   4.236   BETAO (3) =   4.070

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1422	-.0129
.010		-.0161
.020		-.0082
.040		-.0071
.041	-.1464	
.113	-.1005	
.163		-.1766
.246		-.4266
.247	-.0441	
.390		-.4614
.429	-.0805	
.547	-.3105	
.637		-.1550
.638	-.3453	
.727	-.1540	
.793	.0445	
.798		-.2202

ALPHAO(5) =   8.382   BETAO (1) =   -.008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2129	-.3135
.010		-.1993
.020		-.1608
.040		-.1529
.041	-.2140	
.113	-.1561	
.163		-.3077
.246		-.5335
.247	-.0866	
.390		-.5319
.429	-.1382	
.547	-.4024	
.637		-.2214
.638	-.4298	
.727	-.1866	
.793	.0166	
.798		-.2783

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO6)

ALPHAO(6) =   10.453   BETAO (1) =   .004

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.2296   -.4068
.010   -.2743
.020   -.2202
.040   -.2075
.041   -.2254
.113   -.1660
.163   -.3779
.246   -.5877
.247   -.1003
.390   -.5540
.429   -.1539
.547   -.4384
.637   -.2401
.638   -.4547
.727   -.2023
.793   .0080
.798   -.2913

ARC11-019 IA8I LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MAC4   =   .900   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) = -11.207   BETAO (1) =   -4.037

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5142	.0697
.010		.0990
.020		.1214
.040		.1315
.041	-.2268	
.113	-.1786	
.163		.2056
.246		.0268
.247	.0595	
.390		-.1134
.429	.0926	
.547	-.0021	
.637		-.1180
.638	-.1031	
.727	-.0620	
.793	.0048	
.798		-.4216

ALPHAO(1) =   -8.684   BETAO (2) =   -2.018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5175	.0844
.010		.1206
.020		.1407
.040		.1507
.041	-.2274	
.113	-.0904	
.163		.2209
.246		.0257
.247	.0601	
.390		-.1224
.429	.0936	
.547	-.0063	
.637		-.0939

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(1) =   -8.684   BETAO (2) =   -2.018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1155	
.727	-.0441	
.793	.0369	
.798		-.4035

ALPHAO(1) =   -6.128   BETAO (3) =   .034

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5252	.0754
.010		.1310
.020		.1554
.040		.1662
.041	-.4468	
.113	-.0312	
.163		.2299
.246		.0217
.247	.0557	
.390		-.1413
.429	.0970	
.547	-.0130	
.637		-.0791
.638	-.1270	
.727	-.0327	
.793	.0603	
.798		-.3729

ALPHAO(1) =   -6.115   BETAO (4) =   2.098

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5128	.0773
.010		.1465
.020		.1720
.040		.1824
.041	-.4292	
.113	-.0220	
.163		.2361
.246		.0182

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(1) =   -6.115   BETAO (4) =   2.098

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .247   .0566
  .390   -.1571
  .429   .1035
  .547   -.0200
  .637   -.0567
  .638   -.1385
  .727   -.0208
  .793   .0843
  .798   -.3380

ALPHAO(1) =   -6.107   BETAO (5) =   4.143

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4734   .0817
  .010   .1649
  .020   .1900
  .040   .2024
  .041   -.4021
  .113   -.0143
  .163   .2438
  .246   .0108
  .247   .0681
  .390   -.1719
  .429   .1145
  .547   -.0174
  .637   -.0360
  .638   -.1417
  .727   -.0085
  .793   .1060
  .798   -.3044

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO7)

ALPHAO(2) =   -4.084   BETAO (1) =   -6.127

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5084	.0551
.010		.0693
.020		.0801
.040		.0870
.041	-.2778	
.113	-.2589	
.163		.1510
.246		-.0093
.247	.0305	
.390		-.1465
.429	.0687	
.547	-.0394	
.637		-.1511
.638	-.1350	
.727	-.0944	
.793	-.0328	
.798		-.4498

ALPHAO(2) =   -4.075   BETAO (2) =   -4.085

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5134	.0777
.010		.0949
.020		.1105
.040		.1175
.041	-.2599	
.113	-.2173	
.163		.1709
.246		-.0194
.247	.0393	
.390		-.1647
.429	.0742	
.547	-.0412	
.637		-.1260
.638	-.1475	
.727	-.0600	
.793	-.0025	
.798		-.4254

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(2) =   -4.057   BETAO (3) =   .023

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5230	.0980
.010		.1279
.020		.1473
.040		.1531
.041	-.5106	
.113	-.0507	
.163		.1814
.246		-.0461
.247	.0366	
.390		-.2231
.429	.0754	
.547	-.0619	
.637		-.1051
.638	-.1911	
.727	-.0647	
.793	.0405	
.798		-.3925

ALPHAO(2) =   -4.038   BETAO (4) =   4.117

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4642	.1176
.010		.1594
.020		.1772
.040		.1857
.041	-.4669	
.113	-.0485	
.163		.1868
.246		-.0647
.247	.0429	
.390		-.2628
.429	.0825	
.547	-.0760	
.637		-.0686
.638	-.2279	
.727	-.0453	
.793	.0812	
.798		-.3183

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(2) =   -4.037   BETAO (5) =   6.169

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4131	.1421
.010		.1858
.020		.2036
.040		.2048
.041	-.3597	
.113	-.0414	
.163		.1943
.246		-.0670
.247	.0515	
.390		-.2741
.429	.0956	
.547	-.0732	
.637		-.0352
.638	-.2319	
.727	-.0252	
.793	.1146	
.798		-.2621

ALPHAO(3) =   -2.013   BETAO (1) =   -6.133

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5179	.0335
.010		.0538
.020		.0611
.040		.0665
.041	-.2944	
.113	-.2503	
.163		.1084
.246		-.0564
.247	.0103	
.390		-.2012
.429	.0424	
.547	-.0852	
.637		-.1686
.638	-.1931	
.727	-.1167	
.793	-.0380	
.798		-.4569

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(3) =   -2.004   BETAO (2) =   -2.060

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4863	.0796
.010		.0985
.020		.1147
.040		.1193
.041	-.5538	
.113	-.1049	
.163		.1331
.246		-.0976
.247	.0214	
.390		-.2687
.429	.0511	
.547	-.1057	
.637		-.1284
.638	-.2459	
.727	-.0995	
.793	.0099	
.798		-.4176

ALPHAO(3) =   -1.969   BETAO (3) =   2.058

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4781	.1296
.010		.1422
.020		.1549
.040		.1611
.041	-.5265	
.113	-.0837	
.163		.1449
.246		-.1145
.247	.0316	
.390		-.3182
.429	.0638	
.547	-.1153	
.637		-.0941
.638	-.2936	
.727	-.0822	
.793	.0542	
.798		-.3588

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(3) = -1.958   BETAO (4) =   6.150

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3963	.1691
.010		.1798
.020		.1879
.040		.1929
.041	-.4549	
.113	-.0842	
.163		.1460
.246		-.1232
.247	.0364	
.390		-.3464
.429	.0757	
.547	-.1231	
.637		-.0525
.638	-.3350	
.727	-.0545	
.793	.1099	
.798		-.2716

ALPHAO(4) =   .059   BETAO (1) = -6.145

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5011	-.0056
.010		.0125
.020		.0202
.040		.0252
.041	-.3640	
.113	-.2095	
.163		.0383
.246		-.1116
.247	-.0056	
.390		-.2699
.429	.0203	
.547	-.1349	
.637		-.2013
.638	-.2585	
.727	-.1528	
.793	-.0515	
.798		-.4704

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO7)

ALPHAO(4) =   .063   BETAO (2) =   -4.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4765	-.0123
.010		.0375
.020		.0498
.040		.0529
.041	-.5474	
.113	-.1649	
.163		.0529
.246		-.1329
.247	.0043	
.390		-.3130
.429	.0221	
.547	-.1484	
.637		-.1711
.638	-.2972	
.727	-.1395	
.793	-.0234	
.798		-.4441

ALPHAO(4) =   .066   BETAO (3) =   -.005

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4502	.0782
.010		.0948
.020		.1056
.040		.1114
.041	-.5081	
.113	-.1061	
.163		.0832
.246		-.1707
.247	.0074	
.390		-.3746
.429	.0328	
.547	-.1666	
.637		-.1303
.638	-.3677	
.727	-.1283	
.793	.0250	
.798		-.3978

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(4) =   .078   BETAO (4) =   4.088

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4281   .1335
  .010   .1297
  .020   .1409
  .040   .1448
  .041   -.3603
  .113   -.0998
  .163   .0875
  .246   -.1890
  .247   .0141
  .390   -.4144
  .429   .0439
  .547   -.1776
  .637   -.1124
  .638   -.4103
  .727   -.1283
  .793   .0570
  .798   -.3295

ALPHAO(4) =   .082   BETAO (5) =   6.135

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.3828   .1619
  .010   .1514
  .020   .1592
  .040   .1569
  .041   -.2750
  .113   -.1134
  .163   .0842
  .246   -.1953
  .247   .0239
  .390   -.4219
  .429   .0571
  .547   -.1733
  .637   -.0778
  .638   -.4141
  .727   -.1080
  .793   .0996
  .798   -.2658

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO7)

ALPHAO(5) =   2.177   BETAO (1) =   -6.133

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4874	-.0502
.010		-.0177
.020		-.0119
.040		-.0131
.041	-.5144	
.113	-.2044	
.163		-.0181
.246		-.1695
.247	-.0146	
.390		-.3390
.429	-.0023	
.547	-.1832	
.637		-.2309
.638	-.3262	
.727	-.1895	
.793	-.0737	
.798		-.4833

ALPHAO(5) =   2.184   BETAO (2) =   -2.056

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4393	-.0324
.010		.0253
.020		.0442
.040		.0503
.041	-.5120	
.113	-.1213	
.163		.0276
.246		-.2114
.247	-.0090	
.390		-.4212
.429	.0153	
.547	-.2072	
.637		-.1802
.638	-.4243	
.727	-.1833	
.793	-.0009	
.798		-.4316

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(5) =   2.185   BETAO (3) =   2.047

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4277	.0705
.010		.0789
.020		.0970
.040		.1004
.041	-.4296	
.113	-.1298	
.163		.0383
.246		-.2303
.247	.0007	
.390		-.4534
.429	.0287	
.547	-.2171	
.637		-.1418
.638	-.4583	
.727	-.1759	
.793	.0479	
.798		-.3318

ALPHAO(5) =   2.186   BETAO (4) =   6.135

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3652	.1327
.010		.1143
.020		.1216
.040		.1269
.041	-.2629	
.113	-.1560	
.163		.0332
.246		-.2473
.247	.0106	
.390		-.4863
.429	.0437	
.547	-.2241	
.637		-.0840
.638	-.4795	
.727	-.1474	
.793	.1243	
.798		-.2557

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(6) =   4.257   BETAO (1) =   -6.123

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4699	-.0801
.010		-.0474
.020		-.0409
.040		-.0397
.041	-.5424	
.113	-.2006	
.163		-.0574
.246		-.2099
.247	-.0248	
.390		-.3884
.429	-.0159	
.547	-.2164	
.637		-.2559
.638	-.3838	
.727	-.2229	
.793	-.0897	
.798		-.4923

ALPHAO(6) =   4.260   BETAO (2) =   -4.081

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4450	-.1202
.010		-.0320
.020		-.0140
.040		-.0113
.041	-.5232	
.113	-.1508	
.163		-.0393
.246		-.2270
.247	-.0244	
.390		-.4381
.429	-.0083	
.547	-.2336	
.637		-.2313
.638	-.4600	
.727	-.2278	
.793	-.0439	
.798		-.4562

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(6) =   4.257   BETAO (3) =   -.003

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4029	-.0325
.010		.0135
.020		.0384
.040		.0442
.041	-.4650	
.113	-.1507	
.163		-.0137
.246		-.2710
.247	-.0217	
.390		-.4975
.429	.0063	
.547	-.2597	
.637		-.1682
.638	-.5065	
.727	-.2250	
.793	.0430	
.798		-.3632

ALPHAO(6) =   4.257   BETAO (4) =   4.093

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3900	.0482
.010		.0554
.020		.0750
.040		.0807
.041	-.3278	
.113	-.1540	
.163		-.0120
.246		-.2850
.247	-.0085	
.390		-.5265
.429	.0237	
.547	-.2607	
.637		-.1489
.638	-.5286	
.727	-.2206	
.793	.1014	
.798		-.2974

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(6) =   4.251   BETAO (5) =   6.145

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3457	.0731
.010		.0681
.020		.0831
.040		.0892
.041	-.2266	
.113	-.1514	
.163		-.0196
.246		-.2946
.247	-.0015	
.390		- 5485
.429	.0255	
.547	-.2655	
.637		-.1093
.638	-.5411	
.727	-.1766	
.793	.1450	
.798		-.2772

ALPHAO(7) =   6.353   BETAO (1) =   -4.069

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4237	-.1869
.010		-.0735
.020		-.0543
.040		-.0436
.041	-.5049	
.113	-.1670	
.163		-.0804
.246		-.2662
.247	-.0551	
.390		-.4869
.429	-.0240	
.547	-.2670	
.637		-.2612
.638	-.5138	
.727	-.2758	
.793	-.0639	
.798		-.4378

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO7)

ALPHAO(7) =   6.352   BETAO (2) =   -2.035

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4013	-.2039
.010		-.0791
.020		-.0433
.040		-.0276
.041	-.4795	
.113	-.1573	
.163		-.0722
.246		-.3051
.247	-.0537	
.390		-.5326
.429	-.0152	
.547	-.2889	
.637		-.2246
.638	-.5461	
.727	-.2751	
.793	.0082	
.798		-.3842

ALPHAO(7) =   6.347   BETAO (3) =   .010

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3740	-.1373
.010		-.0480
.020		-.0146
.040		-.0096
.041	-.4328	
.113	-.1549	
.163		-.0681
.246		-.3178
.247	-.0515	
.390		-.5498
.429	-.0104	
.547	-.2940	
.637		-.1831
.638	-.5558	
.727	-.2477	
.793	.0639	
.798		-.3506

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR07)

ALPHAO(7) =   6.344   BETAO (4) =   2.069

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .000   -.3602   -.0678
    .010   -.0244
    .020   .0102
    .040   .0121
    .041   -.3783
    .113   -.1679
    .163   -.0651
    .246   -.3184
    .247   -.0456
    .390   -.5689
    .429   -.0029
    .547   -.2987
    .637   -.1647
    .638   -.5810
    .727   -.2177
    .793   .1008
    .798   -.3346

ALPHAO(7) =   6.340   BETAO (5) =   4.114

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .000   -.3440   -.0401
    .010   -.0112
    .020   .0151
    .040   .0266
    .041   -.3278
    .113   -.1758
    .163   -.0740
    .246   -.3328
    .247   -.0335
    .390   -.5989
    .429   .0023
    .547   -.3004
    .637   -.1739
    .638   -.5846
    .727   -.2109
    .793   .1180
    .798   -.3184

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR08)   (17 OCT 75)

REFERENCE DATA		PARAMETRIC DATA	

SREF = 2690.0000 SQ.FT. XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   1.100   RN/FT   =   3.000
ELV-IB =   8.000   ELV-OB =   4.000
RUDDER =   .000   SPDBRK =   .000

ALPHAO(1) =   .064   BETAO (1) =   -6.230

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3131	-.0675
.010		-.0271
.020		-.0155
.040		-.0142
.041	-.4271	
.113	-.4297	
.163		.1219
.246		.0080
.247	-.1801	
.390		-.1284
.429	.0612	
.547	.0034	
.637		.0474
.638	-.1288	
.727	.0464	
.793	.1676	
.798		-.1553

ALPHAO(1) =   .071   BETAO (2) =   -4.159

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2808	-.1284
.010		-.0264
.020		.0005
.040		.0120
.041	-.4027	
.113	-.3657	
.163		.1353
.246		-.0040
.247	-.1794	
.390		-.1589
.429	.0477	
.547	-.0006	
.637		.0445

ARC11-019 IA81 LVAP (ELHL UNSEALD) RT. WING TOP   (RETRO8)

ALPHAO(1) =   .071   BETAO (2) =   -4.159

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.638   -.1637
.727   .0275
.793   .1737
.798   -.1459

ALPHAO(1) =   .075   BETAO (3) =   -.029

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1810   -.0614
.010   -.0338
.020   .0023
.040   .0195
.041   -.3117
.113   -.2523
.163   .1821
.246   -.0467
.247   -.1795
.390   -.2253
.429   .0063
.547   -.0330
.637   .0454
.638   -.2246
.727   -.0401
.793   .2024
.798   -.1042

ALPHAO(1) =   .094   BETAO (4) =   4.123

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1072   .0136
.010   .0045
.020   .0169
.040   .0184
.041   -.2239
.113   -.1467
.163   .1744
.246   -.0559

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO8)

ALPHAO(1) =   .094   BETAO (4) =   4.123

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.1944	
.390		-.2499
.429	-.0534	
.547	-.0394	
.637		-.0194
.638	-.2338	
.727	-.1609	
.793	.2051	
.798		-.0659

ALPHAO(1) =   .103   BETAO (5) =   6.207

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0784	.0488
.010		.0311
.020		.0422
.040		.0483
.041	-.1915	
.113	-.1119	
.163		.1823
.246		-.0616
.247	-.1877	
.390		-.2787
.429	-.0330	
.547	-.0495	
.637		-.0406
.638	-.2239	
.727	-.2498	
.793	.2031	
.798		-.0498

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR08).

ALPHAO(2) =   2.216   BETAO (1) =   -6.219

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2085	-.0942
.010		-.0492
.020		-.0396
.040		-.0398
.041	-.4079	
.113	-.4160	
.163		.0615
.246		-.0274
.247	-.2159	
.390		-.1747
.429	.0628	
.547	-.0348	
.637		-.0017
.638	-.1897	
.727	-.0177	
.793	.1446	
.798		-.1763

ALPHAO(2) =   2.214   BETAO (2) =   -2.090

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2017	-.1834
.010		-.0712
.020		-.0281
.040		-.0065
.041	-.3243	
.113	-.2953	
.163		.1186
.246		-.0740
.247	-.2194	
.390		-.2354
.429	.0278	
.547	-.0582	
.637		-.0139
.638	-.2395	
.727	-.0923	
.793	.1787	
.798		-.1344

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR08)

ALPHAO(2) =   2.224   BETAO (3) =   2.058

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1171	-.1001
.010		-.0829
.020		-.0438
.040		-.0192
.041	-.2551	
.113	-.1851	
.163		.1415
.246		-.0778
.247	-.2034	
.390		-.2715
.429	-.0347	
.547	-.0524	
.637		-.0966
.638	-.2605	
.727	-.3002	
.733	.1611	
.798		-.1035

ALPHAO(2) =   2.234   BETAO (4) =   6.197

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0623	.0033
.010		-.0230
.020		-.0086
.040		-.0065
.041	-.1802	
.113	-.0821	
.163		.1327
.246		-.1016
.247	-.1453	
.390		-.3359
.429	-.0476	
.547	-.0712	
.637		-.1311
.638	-.2728	
.727	-.3091	
.793	.1715	
.798		-.0612

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO8)

ALPHAO(3) =   4.330   BETAO (1) =   -4.129

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2164	-.2412
.010		-.1306
.020		-.1040
.040		-.0939
.041	-.3277	
.113	-.3356	
.163		.0382
.246		-.0820
.247	-.2665	
.390		-.2321
.429	.0379.	
.547	-.0565	
.637		-.0656
.638	-.2301	
.727	-.1547	
.793	.1541	
.798		-.1683

ALPHAO(3) =   4.329   BETAO (2) =   -.008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1554	-.2449
.010		-.1412
.020		-.0884
.040		-.0693
.041	-.2784	
.113	-.2431	
.163		.0930
.246		-.1178
.247	-.2446	
.390		-.3137
.429	.0054	
.547	-.0889	
.637		-.1410
.638	-.3043	
.727	-.3411	
.793	.1756	
.798		-.1297

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR08)

ALPHAO(3) =   4.334   BETAO (3) =   4.139

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0669	-.1240
.010		-.1209
.020		-.0903
.040		-.0677
.041	-.1993	
.113	-.1171	
.163		.0744
.246		-.1222
.247	-.1565	
.390		-.3304
.429	-.0611	
.547	-.0723	
.637		-.2182
.638	-.3048	
.727	-.3710	
.793	.1291	
.798		-.1013

ALPHAO(3) =   4.334   BETAO (4) =   6.220

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0425	-.0743
.010		-.1001
.020		-.0625
.040		-.0468
.041	-.1790	
.113	-.0807	
.163		.0793
.246		-.1459
.247	-.1125	
.390		-.3898
.429	-.0425	
.547	-.0991	
.637		-.2424
.638	-.3228	
.727	-.3665	
.793	.1231	
.798		-.0720

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

PARAMETRIC DATA

MACH   =   1.100   RN/FT =   2.250
ELV-IB =   8.000   ELV-OB =   4.000
RUDDER =   .000   SPDBRK =   .000

ALPHAO(1) =   -6.236   BETAO (1) =   -4.085

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3120	-.0187
.010		.0112
.020		.0319
.040		.0488
.041	-.4310	
.113	-.3833	
.163		.2196
.246		.0930
.247	-.1325	
.390		.0119
.429	.0196	
.547	.0733	
.637		.1306
.638	.0348	
.727	.1490	
.793	.2504	
.798		-.1135

ALPHAO(1) =   -6.225   BETAO (2) =   -2.030

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2739	-.0151
.010		.0129
.020		.0399
.040		.0527
.041	-.3826	
.113	-.3398	
.163		.2501
.246		.0753
.247	-.1099	
.390		-.0097
.429	.0022	
.547	.0643	
.637		.1573

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(1) =   -6.225   BETAO (2) =   -2.030

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .638   .0231
    .727   .1755
    .793   .2751
    .798   -.0985

ALPHAO(1) =   -6.193   BETAO (3) =   .032

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.2256   -.0352
    .010   .0029
    .020   .0313
    .040   .0458
    .041   -.3258
    .113   -.3194
    .163   .2678
    .246   .0633
    .247   -.1068
    .390   -.0146
    .429   -.0092
    .547   .0556
    .637   .1629
    .638   .0006
    .727   .1835
    .793   .2807
    .798   -.0855

ALPHAO(1) =   -6.179   BETAO (4) =   2.098

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1897   -.0218
    .010   .0232
    .020   .0462
    .040   .0570
    .041   -.2834
    .113   -.3010
    .163   .2770
    .246   .0604

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(1) =   -6.179   BETAO (4) =   2.098

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .247   -.1085
    .390   -.0912
    .429   -.0171
    .547   .0442
    .637   .1714
    .638   -.0580
    .727   .1880
    .793   .2865
    .798   -.0716

ALPHAO(1) =   -6.167   BETAO (5) =   4.163

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.1572   .0015
    .010   .0533
    .020   .0757
    .040   .0828
    .041   -.2304
    .113   -.2676
    .163   .2845
    .246   .0543
    .247   -.1058
    .390   -.1180
    .429   -.0063
    .547   .0425
    .637   .1813
    .638   -.1207
    .727   .1664
    .793   .2896
    .798   -.0521

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(2) =   -4.143   BETAO (1) =   -6.157

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3388	-.0190
.010		.0057
.020		.0236
.040		.0384
.041	-.4700	
.113	-.4167	
.163		.1737
.246		.0509
.247	-.1468	
.390		-.0446
.429	.0414	
.547	.0327	
.637		.0995
.638	-.0176	
.727	.1126	
.793	.2098	
.798		-.1359

ALPHAO(2) =   -4.132   BETAO (2) =   -4.105

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3017	-.0196
.010		.0103
.020		.0315
.040		.0447
.041	-.4266	
.113	-.3762	
.163		.1841
.246		.0575
.247	-.1260	
.390		-.0526
.429	.0108	
.547	.0420	
.637		.1150
.638	-.0331	
.727	.1211	
.793	.2231	
.798		-.1174

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(2) =   -4.101   BETAO (3) =   .017

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2174	-.0170
.010		.0083
.020		.0342
.040		.0470
.041	-.3282	
.113	-.3006	
.163		.2383
.246		.0231
.247	-.1180	
.390		-.1278
.429	-.0082	
.547	.0184	
.637		.1430
.638	-.1187	
.727	.1467	
.793	.2477	
.798		-.0905

ALPHAO(2) =   -4.075   BETAO (4) =   4.131

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1438	.0248
.010		.0468
.020		.0620
.040		.0671
.041	-.2361	
.113	-.2561	
.163		.2434
.246		.0072
.247	-.1465	
.390		-.1630
.429	-.0344	
.547	.0048	
.637		.1317
.638	-.1708	
.727	.0830	
.793	.2580	
.798		-.0568

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(2) =   -4.067   BETAO (5) =   6.191

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1056	.0605
.010		.0865
.020		.1010
.040		.1034
.041	-.1942	
.113	-.2280	
.163		.2636
.246		.0098
.247	-.1330	
.390		-.1792
.429	-.0017	
.547	.0010	
.637		.1102
.638	-.1800	
.727	.0324	
.793	.2626	
.798		-.0329

ALPHAO(3) =   -2.045   BETAO (1) =   -6.165

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3354	-.0249
.010		-.0016
.020		.0146
.040		.0200
.041	-.4684	
.113	-.4329	
.163		.1482
.246		.0227
.247	-.1534	
.390		-.1048
.429	.0505	
.547	.0070	
.637		.0723
.638	-.0967	
.727	.0740	
.793	.1779	
.798		-.1479

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(3) =   -2.034   BETAO (2) =   -2.072

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.2505   -.0291
   .010   .0070
   .020   .0369
   .040   .0480
   .041   -.3763
   .113   -.3235
   .163   .1858
   .246   -.0038
   .247   -.1345
   .390   -.1311
   .429   .0330
   .547   -.0003
   .637   .0955
   .638   -.1382
   .727   .0874
   .793   .2053
   .798   -.1120

ALPHAO(3) =   -1.993   BETAO (3) =   2.059

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1578   -.0006
   .010   .0021
   .020   .0160
   .040   .0237
   .041   -.2749
   .113   -.2330
   .163   .2127
   .246   -.0222
   .247   -.1625
   .390   -.1936
   .429   -.0390
   .547   -.0137
   .637   .0797
   .638   -.1959
   .727   .0231
   .793   .2160
   .798   -.0808

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(3) =   -1.978   BETAO (4) =   6.163

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.0935   .0694
  .010   .0663
  .020   .0772
  .040   .0782
  .041   -.2000
  .113   -.1699
  .163   .2218
  .246   -.0351
  .247   -.1757
  .390   -.2297
  .429   -.0148
  .547   -.0273
  .637   .0234
  .638   -.2111
  .727   -.0979
  .793   .2201
  .798   -.0434

ALPHAO(4) =   .052   BETAO (1) =   -6.173

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.3249   -.0430
  .010   -.0213
  .020   -.0071
  .040   .003s
  .041   -.4408
  .113   -.4378
  .163   .1179
  .246   -.0061
  .247   -.1839
  .390   -.1434
  .429   .0676
  .547   -.0122
  .637   .0311
  .638   -.1464
  .727   .0300
  .793   .1494
  .798   -.1713

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(4) =   .055   BETAO (2) =   -4.122

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.2827   -.1106
    .010   -.0255
    .020   .0056
    .040   .0201
    .041   -.4056
    .113   -.3634
    .163   .1342
    .246   -.0035
    .247   -.1784
    .390   -.1568
    .429   .0414
    .547   -.0019
    .637   .0393
    .638   -.1599
    .727   .0258
    .793   .1649
    .798   -.1517

ALPHAO(4) =   .063   BETAO (3) =   -.022

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1875   -.0685
    .010   -.0398
    .020   -.0009
    .040   .0143
    .041   -.3211
    .113   -.2592
    .163   .1736
    .246   -.0543
    .247   -.1835
    .390   -.2278
    .429   -.0002
    .547   -.0374
    .637   .0448
    .638   -.2271
    .727   -.0026
    .793   .1919
    .798   -.1140

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(4) =   .079   BETAO (4) =   4.095

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
     .000   -.1092   .0065
     .010   -.0009
     .020   .0106
     .040   .0116
     .041   -.2293
     .113   -.1511
     .163   .1678
     .246   -.0648
     .247   -.1938
     .390   -.2525
     .429   -.0584
     .547   -.0412
     .637   -.0260
     .638   -.2391
     .727   -.1494
     .793   .1948
     .798   -.0733

ALPHAO(4) =   .086   BETAO (5) =   6.161

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
     .000   -.0834   .0385
     .010   .0209
     .020   .0344
     .040   .0344
     .041   -.1999
     .113   -.1166
     .163   .1749
     .246   -.0729
     .247   -.1938
     .390   -.2782
     .429   -.0350
     .547   -.0513
     .637   -.0560
     .638   -.2274
     .727   -.2375
     .793   .1878
     .798   -.0565

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(5) =   2.173   BETAO (1) =   -6.160

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2922	-.0997
.010		-.0523
.020		-.0411
.040		-.0432
.041	-.4107	
.113	-.4171	
.163		.0604
.246		-.0279
.247	-.2164	
.390		-.1738
.429	.0553	
.547	-.0323	
.637		-.0120
.638	-.1894	
.727	-.0235	
.793	.1369	
.798		-.1837

ALPHAO(5) =   2.175   BETAO (2) =   -2.076

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2147	-.1811
.010		-.0738
.020		-.0309
.040		-.0122
.041	-.3397	
.113	-.3051	
.163		.1119
.246		-.0765
.247	-.2279	
.390		-.2278
.429	.0179	
.547	-.0597	
.637		-.0224
.638	-.2235	
.727	-.0938	
.793	.1617	
.798		-.1499

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(5) =   2.187   BETAO (3) =   2.048

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1254	-.1072
.010		-.0892
.020		-.0480
.040		-.0277
.041	-.2621	
.113	-.1910	
.163		.1323
.246		-.0879
.247	-.2080	
.390		-.2810
.429	-.0375	
.547	-.0578	
.637		-.1035
.638	-.2668	
.727	-.2895	
.793	.1526	
.798		-.1108

ALPHAO(5) =   2.192   BETAO (4) =   6.163

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0706	-.0090
.010		-.0340
.020		-.0225
.040		-.0171
.041	-.1956	
.113	-.0964	
.163		.1209
.246		-.1183
.247	-.1644	
.390		-.2956
.429	-.0507	
.547	-.0828	
.637		-.1531
.638	-.2501	
.727	-.3307	
.793	.1388	
.798		-.0857

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ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(6) =   4.247   BETAO (1) = -6.141

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.2669   -.1318
.010   -.0902
.020   -.0717
.040   -.0652
.041   -.3798
.113   -.4027
.163   -.0264
.246   -.0848
.247   -.2531
.390   -.2099
.429   .0560
.547   -.0535
.637   -.0422
.638   -.2169
.727   -.0754
.793   .1207
.798   -.1955

ALPHAO(6) =   4.249   BETAO (2) = -4.095

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.2276   -.2039
.010   -.1283
.020   -.1029
.040   -.0921
.041   -.3381
.113   -.3455
.163   .0370
.246   -.0914
.247   -.2647
.390   -.2387
.429   .0403
.547   -.0536
.637   -.0806
.638   -.2357
.727   -.1597
.793   .1373
.798   -.1786

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(6) =   4.254   BETAO (3) =   -.002

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1634   -.2441
.010   -.1444
.020   -.0896
.040   -.0686
.041   -.2872
.113   -.2497
.163   .0889
.246   -.1285
.247   -.2507
.390   -.3148
.429   -.0017
.547   -.0940
.637   -.1376
.638   -.3089
.727   -.3138
.793   .1704
.798   -.1398

ALPHAO(6) =   4.256   BETAO (4) =   4.108

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.0780   -.1289
.010   -.1275
.020   -.0921
.040   -.0728
.041   -.2082
.113   -.1280
.163   .0714
.246   -.1319
.247   -.1689
.390   -.3335
.429   -.0658
.547   -.0783
.637   -.2096
.638   -.3113
.727   -.3764
.793   .1207
.798   -.1122

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(6) =   4.255   BETAO=(=5) =   6.174

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.0513	-.0865
.010		-.1068
.020		-.0662
.040		-.0483
.041	-.1842	
.113	-.0736	
.163		.0731
.246		-.1578
.247	-.1264	
.390		-.3918
.429	-.0523	
.547	-.1074	
.637		-.2417
.638	-.3184	
.727	-.3627	
.793	.1130	
.798		-.0955

ALPHAO(7) =   6.369   BETAO (1) =   -4.073

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1975	-.2497
.010		-.1712
.020		-.1344
.040		-.1230
.041	-.3114	
.113	-.3289	
.163		-.0114
.246		-.1422
.247	-.2983	
.390		-.2824
.429	.0301	
.547	-.1071	
.637		-.1240
.638	-.2821	
.727	-.2302	
.793	.1214	
.798		-.2053

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETR09)

ALPHAO(7) =   6.370   BETAO (2) =   -2.035

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1815	-.3846
.010		-.1984
.020		-.1383
.040		-.1`46
.041	-.3005	
.113	-.2849	
.163		.0267
.246		-.1477
.247	-.2785	
.390		-.3265
.429	.0348	
.547	-.1180	
.637		-.1781
.638	-.3292	
.727	-.3569	
.793	.1423	
.798		-.1861

ALPHAO(7) =   6.369   BETAO (3) =   .015

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1513	-.4343
.010		-.2326
.020		-.1429
.040		-.1152
.041	-.2731	
.113	-.2347	
.163		.0517
.246		-.1530
.247	-.2417	
.390		-.3493
.429	.0147	
.547	-.1125	
.637		-.2778
.638	-.3443	
.727	-.3988	
.793	.1242	
.798		-.1737

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING TOP   (RETRO9)

ALPHAO(7) =   6.366   BETAO (4) =   2.074

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1042	-.3442
.010		-.2274
.020		-.1490
.040		-.1258
.041	-.2308	
.113	-.1739	
.163		.0577
.246		-.1487
.247	-.1917	
.390		-.3570
.429	-.0272	
.547	-.0928	
.637		-.3297
.638	-.3395	
.727	-.4075	
.793	.0923	
.798		-.1577

ALPHAO(7) =   6.365   BETAO (5) =   4.127

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0661	-.2428
.010		-.2337
.020		-.1671
.040		-.1279
.041	-.1924	
.113	-.1117	
.163		.0264
.246		-.1725
.247	-.1515	
.390		-.3731
.429	-.0678	
.547	-.0938	
.637		-.3448
.638	-.3409	
.727	-.4150	
.793	.0710	
.798		-.1257

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR10)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

BETAO (1) =   .019   ALPHAO(1) =   -6.200

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2269   -.0349
   .010   .0035
   .020   .0312
   .040   .0467
   .041   -.3281
   .113   -.3227
   .163   .2657
   .246   .0629
   .247   -.1071
   .390   -.0518
   .429   -.0083
   .547   .0484
   .637   .1618
   .638   -.0191
   .727   .1806
   .793   .2765
   .798   -.0982

BETAO (1) =   .001   ALPHAO(2) =   -4.091

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2164   -.0144
   .010   .0092
   .020   .0344
   .040   .0452
   .041   -.3284
   .113   -.3029
   .163   .2405
   .246   .0233
   .247   -.1152
   .390   -.1299
   .429   .0009
   .547   .0228
   .637   .1348

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                        ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR10)

BETAO (1) =   .001   ALPHAO(2) =   -4.091

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

 Y/BW   .2350   .3640

  X/CW
   .638   -.1276
   .727   .1253
   .793   .2378
   .798   -.1057

BETAO (1) =   -.016   ALPHAO(3) =   -2.000

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

 Y/BW   .2350   .3640

  X/CW
   .000   -.2076   -.0242
   .010   -.0064
   .020   .0209
   .040   .0364
   .041   -.3247
   .113   -.2779
   .163   .2138
   .246   -.0141
   .247   -.1447
   .390   -.1723
   .429   .0070
   .547   -.0048
   .637   .0849
   .638   -.1783
   .727   .0583
   .793   .2118
   .798   -.1168

BETAO (1) =   -.022   ALPHAO(4) =   .085

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

 Y/BW   .2350   .3640

  X/CW
   .000   -.1765   -.0643
   .010   -.0404
   .020   -.0040
   .040   .0158
   .041   -.3143
   .113   -.2536
   .163   .1775
   .246   -.0502

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR10)

BETAO (1) =   -.022   ALPHAO(4) =   .085

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.1809	
.390		-.2216
.429	.0040	
.547	-.0330	
.637		.0239
.638	-.2206	
.727	-.0620	
.793	.1775	
.798		-.1257

BETAO (1) =   -.019   ALPHAO(5) =   2.189

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1702	-.1407
.010		-.0866
.020		-.0436
.040		-.0290
.041	-.3016	
.113	-.2528	
.163		.1271
.246		-.0944
.247	-.2264	
.390		-.2765
.429	-.0036	
.547	-.0693	
.637		-.0734
.638	-.2694	
.727	-.1651	
.793	.1606	
.798		-.1362

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR10)

BETAO (1) =   -.014   ALPHAO(6) =   4.274

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1525	-.2364
.010		-.1377
.020		-.0851
.040		-.0662
.041	-.2762	
.113	-.2435	
.163		.0912
.246		-.1208
.247	-.2445	
.390		-.3116
.429	.0059	
.547	-.0858	
.637		-.1511
.638	-.3038	
.727	-.3311	
.793	.1508	
.798		-.1447

BETAO (1) =   .001   ALPHAO(7) =   6.376

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1465	-.4402
.010		-.2354
.020		-.1478
.040		-.1216
.041	-.2697	
.113	-.2381	
.163		.0492
.246		-.1562
.247	-.2452	
.390		-.3529
.429	.0121	
.547	-.1128	
.637		-.2778
.638	-.3425	
.727	-.4031	
.793	.1243	
.798		-.1838

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR11)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.250   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-1B =   8.000   ELV-0B =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.258   BETAO (1) =   -4.078

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1916   -.1124
   .010   -.0923
   .020   -.0764
   .040   -.0665
   .041   -.2864
   .113   -.2982
   .163   .1094
   .246   .0330
   .247   -.1302
   .390   -.0723
   .429   -.0856
   .547   -.0166
   .637   .1345
   .638   -.1009
   .727   .0900
   .793   .2564
   .798   -.0268

ALPHAO(1) =   -6.244   BETAO (2) =   -2.027

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1492   -.1096
   .010   -.0813
   .020   -.0598
   .040   -.0477
   .041   -.2342
   .113   -.2641
   .163   .1153
   .246   .0303
   .247   -.1378
   .390   -.0734
   .429   -.0918
   .547   -.0170
   .637   .1296

IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(1) = -6.244   BETAO (2) = -2.027

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.638	-.1026	
.727	.0884	
.793	.2562	
.798		-.0170

ALPHAO(1) = -6.209   BETAO (3) = .049

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1090	-.1770
.010		-.1033
.020		-.0636
.040		-.0414
.041	-.1938	
.113	-.2259	
.163		.1171
.246		.0231
.247	-.1312	
.390		-.0750
.429	-.0881	
.547	-.0192	
.637		.1180
.638	-.0979	
.727	.0831	
.793	.2488	
.798		-.0139

ALPHAO(1) = -6.193   BETAO (4) = 2.114

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1126	-.2150
.010		-.1066
.020		-.0757
.040		-.0573
.041	-.1444	
.113	-.1899	
.163		.1348
.246		.0257

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI1)

ALPHAO(1) = -6.193   BETAO (4) =   2.114

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.1209	
.390		-.0878
.429	-.0796	
.547	-.0214	
.637		.0944
.638	-.1101	
.727	.0327	
.793	.2426	
.798		-.0051

ALPHAO(1) = -6.181   BETAO (5) =   4.175

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0969	-.1789
.010		-.0708
.020		-.0454
.040		-.0288
.041	-.0956	
.113	-.1538	
.163		.1594
.246		.0287
.247	-.0756	
.390		-.1004
.429	-.0600	
.547	-.0129	
.637		.0446
.638	-.1178	
.727	-.0813	
.793	.2380	
.798		.0183

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(2) =   -4.161   BETAO (1) =   -6.152

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2153	-.1039
.010		-.0810
.020		-.0552
.040		-.0482
.041	-.3231	
.113	-.3326	
.163		.1029
.246		.0094
.247	-.1691	
.390		-.0721
.429	-.0702	
.547	-.0260	
.637		.0991
.638	-.0715	
.727	.0819	
.793	.2181	
.798		-.0602

ALPHAO(2) =   -4.149   BETAO (2) =   -4.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1835	-.1075
.010		-.0859
.020		-.0631
.040		-.0507
.041	-.2867	
.113	-.3137	
.163		.0993
.246		.0079
.247	-.1770	
.390		-.1059
.429	-.0888	
.547	-.0301	
.637		.0882
.638	-.1351	
.727	.0257	
.793	.2134	
.798		-.0481

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR11)

ALPHAO(2) =   -4.119   BETAO (3) =   .013

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.1045   -.1407
    .010   -.1001
    .020   -.0633
    .040   -.0468
    .041   -.1905
    .113   -.2451
    .163   .0957
    .246   -.0065
    .247   -.1772
    .390   -.1077
    .429   -.1115
    .547   -.0306
    .637   .0570
    .638   -.1255
    .727   -.0030
    .793   .2065
    .798   -.0341

ALPHAO(2) =   -4.090   BETAO (4) =   4.141

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.0881   -.1572
    .010   -.0824
    .020   -.0605
    .040   -.0442
    .041   -.1056
    .113   -.1740
    .163   .1202
    .246   -.0150
    .247   -.1323
    .390   -.1432
    .429   -.0916
    .547   -.0445
    .637   -.0945
    .638   -.1511
    .727   -.2055
    .793   .1797
    .798   .0029

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(2) = -4.088   BETAO (5) =   6.203

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0544	-.1093
.010		-.0366
.020		-.0157
.040		-.0014
.041	-.0569	
.113	-.1204	
.163		.1602
.246		.0040
.247	-.1026	
.390		-.1468
.429	-.0534	
.547	-.0204	
.637		-.2607
.638	-.1480	
.727	-.2188	
.793	.1519	
.798		.0270

ALPHAO(3) = -2.044   BETAO (1) = -6.169

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2087	-.1136
.010		-.0854
.020		-.0683
.040		-.0559
.041	-.3291	
.113	-.3485	
.163		.0807
.246		-.0198
.247	-.2017	
.390		-.1130
.429	-.0537	
.547	-.0394	
.637		.0601
.638	-.1139	
.727	.0331	
.793	.1853	
.798		-.0790

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR11)

ALPHAO(3) =   -2.029   BETAO (2) =   -2.075

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1659	-.0935
.010		-.0773
.020		-.0538
.040		-.0465
.041	-.2485	
.113	-.2936	
.163		.0781
.246		-.0198
.247	-.2260	
.390		-.1431
.429	-.1068	
.547	-.0303	
.637		.0044
.638	-.1502	
.727	-.0964	
.793	.1744	
.798		-.0611

ALPHAO(3) =   -2.008   BETAO (3) =   2.060

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1085	-.1604
.010		-.1063
.020		-.0468
.040		-.0229
.041	-.1524	
.113	-.2256	
.163		.0694
.246		-.0506
.247	-.1976	
.390		-.1731
.429	-.1212	
.547	-.0649	
.637		-.1314
.638	-.1721	
.727	-.2291	
.793	.1407	
.798		-.0320

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(3) =   -1.995   BETAO (4) =   6.179

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0485	-.0989
.010		-.0510
.020		-.0297
.040		-.0101
.041	-.0612	
.113	-.1377	
.163		.1239
.246		-.0307
.247	-.1206	
.390		-.1891
.429	-.0780	
.547	-.0415	
.637		-.3201
.638	-.1838	
.727	-.2452	
.793	.0467	
.798		-.0199

ALPHAO(4) =   .066   BETAO (1) =   -6.174

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2281	-.1401
.010		-.1111
.020		-.1016
.040		-.1035
.041	-.3521	
.113	-.3613	
.163		.0535
.246		-.0215
.247	-.2313	
.390		-.1289
.429	-.0530	
.547	-.0450	
.637		.0090
.638	-.1181	
.727	-.0644	
.793	.1645	
.798		-.1021

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(4) =   .072   BETAO (2) =   -4.124

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1950	-.1407
.010		-.0882
.020		-.0669
.040		-.0568
.041	-.3037	
.113	-.3396	
.163		.0466
.246		-.0453
.247	-.2328	
.390		-.1769
.429	-.0793	
.547	-.0526	
.637		-.0523
.638	-.1848	
.727	-.1642	
.793	.1429	
.798		-.0944

ALPHAO(4) =   .075   BETAO (3) =   -.018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1793	-.0671
.010		-.0579
.020		-.0385
.040		-.0312
.041	-.1920	
.113	-.2751	
.163		.0494
.246		-.0661
.247	-.2275	
.390		-.1898
.429	-.1175	
.547	-.0575	
.637		-.1699
.638	-.1917	
.727	-.2387	
.793	.1208	
.798		-.0785

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(4) =   .088   BETAO (4) =   4.105

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1185	-.1217
.010		-.0756
.020		-.0082
.040		.0077
.041	-.1220	
.113	-.1983	
.163		.0675
.246		-.0794
.247	-.1687	
.390		-.2310
.429	-.1128	
.547	-.0717	
.637		-.3458
.638	-.2161	
.727	-.2708	
.793	-.0043	
.798		-.0666

ALPHAO(4) =   .092   BETAO (5) =   6.164

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.0708	-.0949
.010		-.0648
.020		-.0055
.040		.0392
.041	-.0673	
.113	-.1441	
.163		.0922
.246		-.0623
.247	-.1209	
.390		-.2300
.429	-.0835	
.547	-.0540	
.637		-.3585
.638	-.2085	
.727	-.2767	
.793	-.0626	
.798		-.0886

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(5) =   1.116   BETAO (1) =   -6.171

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2329	-.1586
.010		-.1218
.020		-.1081
.040		-.1094
.041	-.3573	
.113	-.3567	
.163		.0429
.246		-.0241
.247	-.2316	
.390		-.1433
.429	-.0517	
.547	-.0456	
.637		-.0253
.638	-.1316	
.727	-.1164	
.793	.1511	
.798		-.1047

ALPHAO(5) =   1.120   BETAO (2) =   -2.081

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1863	-.1274
.010		-.0859
.020		-.0659
.040		-.0564
.041	-.2531	
.113	-.3137	
.163		.0434
.246		-.0694
.247	-.2313	
.390		-.1942
.429	-.0979	
.547	-.0523	
.637		-.1749
.638	-.1964	
.727	-.2408	
.793	.1137	
.798		-.0803

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR11)

ALPHAO(5) =   1.132   BETAO (3) =   2.044

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1797   -.0334
.010   -.0436
.020   -.0204
.040   -.0150
.041   -.1794
.113   -.2515
.163   .0254
.246   -.0935
.247   -.2070
.390   -.2400
.429   -.1177
.547   -.0798
.637   -.3223
.638   -.2210
.727   -.2728
.793   .0295
.798   -.0796

ALPHAO(5) =   1.141   BETAO (4) =   6.158

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1014   -.0944
.010   -.0566
.020   .0165
.040   .0356
.041   -.0916
.113   -.1597
.163   .0706
.246   -.0795
.247   -.1266
.390   -.2569
.429   -.0916
.547   -.0684
.637   -.3846
.638   -.2312
.727   -.3023
.793   -.1192
.798   -.1233

ARC11-019 IA81 LVAP(CLHL SEALED) RT. WING TOP   (RETRI1)

ALPHAO(6) =   3.217   BETAO (1) =   -6.163

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.2334   -.2093
.010   -.1680
.020   -.1515
.040   -.1455
.041   -.3583
.113   -.3548
.163   -.0177
.246   -.0713
.247   -.2511
.390   -.1728
.429   -.0561
.547   -.0608
.637   -.1579
.638   -.1553
.727   -.2153
.793   .1114
.798   -.1054

ALPHAO(6) =   3.218   BETAO (2) =   -4.114

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1981   -.2343
.010   -.1438
.020   -.1191
.040   -.1042
.041   -.3174
.113   -.3351
.163   -.0029
.246   -.0877
.247   -.2327
.390   -.2283
.429   -.0835
.547   -.0734
.637   -.2353
.638   -.2285
.727   -.2610
.793   .0818
.798   -.1070

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(6) =   3.223   BETAO (3) =   -.012

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.2345   -.1955
 .010   -.1368
 .020   -.1048
 .040   -.0895
 .041   -.2119
 .113   -.2636
 .163   .0043
 .246   -.1251
 .247   -.1850
 .390   -.2605
 .429   -.1124
 .547   -.0816
 .637   -.3404
 .638   -.2456
 .727   -.2941
 .793   .0310
 .798   -.1241

ALPHAO(6) =   3.229   BETAO (4) =   4.104

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.1545   -.0401
 .010   -.0667
 .020   -.0401
 .040   -.0248
 .041   -.1840
 .113   -.2132
 .163   -.0036
 .246   -.1222
 .247   -.1358
 .390   -.2924
 .429   -.1000
 .547   -.0917
 .637   -.4049
 .638   -.2658
 .727   -.3190
 .793   -.1123
 .798   -.1468

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI1)

ALPHAO(6) =   3.228   BETAO (5) =   6.167

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1079   .0268
  .010   -.0125
  .020   .0043
  .040   .0091
  .041   -.1111
  .113   -.1703
  .163   .0230
  .246   -.1063
  .247   -.1168
  .390   -.2856
  .429   -.0781
  .547   -.0737
  .637   -.4121
  .638   -.2528
  .727   -.3259
  .793   -.1773
  .798   -.1770

ALPHAO(7) =   5.320   BETAO (1) = -4.097

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1803 -.3161
  .010   -.2202
  .020   -.1809
  .040   -.1562
  .041   -.3009
  .113   -.2851
  .163   -.0350
  .246   -.1182
  .247   -.2252
  .390   -.2591
  .429   -.0885
  .547   -.0840
  .637   -.3173
  .638   -.2556
  .727   -.2952
  .793   .0499
  .798   -.1140

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR11)

ALPHAO(7) =   5.323   BETAO (2) =   -2.054

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1375	-.3752
.010		-.2378
.020		-.1622
.040		-.1340
.041	-.2541	
.113	-.2617	
.163		-.0378
.246		-.1432
.247	-.2050	
.390		-.2730
.429	-.1081	
.547	-.0840	
.637		-.3651
.630	-.2661	
.727	-.3125	
.793	.0280	
.798		-.1478

ALPHAO(7) =   5.325   BETAO (3) =   .002

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2123	-.3013
.010		-.2354
.020		-.1704
.040		-.1432
.041	-.2135	
.113	-.2516	
.163		-.0389
.246		-.1571
.247	-.1752	
.390		-.2994
.429	-.1239	
.547	-.1010	
.637		-.3961
.638	-.2750	
.727	-.3229	
.793	-.0095	
.798		-.1630

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR11)

ALPHAO(7) =   5.323   BETAO (4) =   2.067

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2066	-.1883
.010		-.1823
.020		-.1461
.040		-.1265
.041	-.2158	
.113	-.2257	
.163		-.0380
.246		-.1541
.247	-.1493	
.390		-.3183
.429	-.1168	
.547	-.1039	
.637		-.4173
.638	-.2846	
.727	-.3326	
.793	-.0948	
.798		-.1759

ALPHAO(7) =   5.325   BETAO (5) =   4.125

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1498	-.0687
.010		-.1010
.020		-.0801
.040		-.0715
.041	-.1822	
.113	-.2183	
.163		-.0398
.246		-.1482
.247	-.1169	
.390		-.3269
.429	-.1140	
.547	-.1032	
.637		-.4353
.638	-.2950	
.727	-.3494	
.793	-.1843	
.798		-.1998

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	976.0000 IN. XT	MACH	=	1.400
LREF	=	1297.0000 INCHES	YMRP	=	.0000 IN. YT	ELV-1B	=	8.000
BREF	=	1297.0000 INCHES	ZMRP	=	400.0000 IN. ZT	RUDDER	=	.000
SCALE	=	.0300 SCALE						

RN/FT	=	2.250
ELV-0B	=	.000
SPDBRK	=	.000

ALPHAO(1) =   -6.305   BETAO (1) = -4.079

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1958	-.0643
.010		-.0519
.020		-.0383
.040		-.0305
.041	-.1912	
.113	-.2265	
.163		.0761
.246		.0148
.247	-.1307	
.390		-.0659
.429	-.0560	
.547	-.0377	
.637		.0380
.638	-.1257	
.727	-.0649	
.793	.2349	
.798		-.0070

ALPHAO(1) =   -6.288   BETAO (2) = -2.026

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1529	-.0528
.010		-.0361
.020		-.0191
.040		-.0102
.041	-.1520	
.113	-.1885	
.163		.0924
.246		.0136
.247	-.1177	
.390		-.0661
.429	-.0398	
.547	-.0414	
.637		.0368

                        ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(1) =   -6.288   BETAO (2) =   -2.026

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

   X/CW
     .638   -.1189
     .727   -.0466
     .793   .2278
     .798   -.0118

ALPHAO(1) =   -8.273   BETAO (3) =   .028

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

   X/CW
     .000   -.1730   -.0949
     .010   -.0437
     .020   -.0227
     .040   -.0091
     .041   -.1085
     .113   -.1468
     .163   .1199
     .246   .0341
     .247   -.0956
     .390   -.0675
     .429   -.0357
     .547   -.0193
     .637   .0017
     .638   -.1110
     .727   -.0770
     .793   .2143
     .798   -.0099

ALPHAO(1) =   -6.241   BETAO (4) =   2.117

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

   X/CW
     .000   -.1864   -.0849
     .010   -.0232
     .020   -.0019
     .040   .0095
     .041   -.0624
     .113   -.1074
     .163   .1428
     .246   .0370

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(1) =   -6.241   BETAO (4) =   2.117

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .247   -.0790
   .390   -.0738
   .429   -.0161
   .547   -.0093
   .637   -.0936
   .638   -.1019
   .727   -.1145
   .793   .2018
   .798   .0012

ALPHAO(1) =   -6.229   BETAO (5) =   4.174

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.0789   -.0560
   .010   .0017
   .020   .0230
   .040   .0325
   .041   .0066
   .113   -.0588
   .163   .1689
   .246   .0504
   .247   -.0505
   .390   -.0727
   .429   -.0024
   .547   .0134
   .637   -.1899
   .638   -.0943
   .727   -.1396
   .793   .1707
   .798   .0413

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR12)

ALPHAO(2) =   -4.192   BETAO (1) =   -6.158

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.1559   -.1098
    .010   -.0925
    .020   -.0839
    .040   -.0771
    .041   -.2334
    .113   -.2819
    .163   .0592
    .246   -.0134
    .247   -.1797
    .390   -.0953
    .429   -.0771
    .547   -.0471
    .637   .0104
    .638   -.1438
    .727   -.0845
    .793   .1794
    .798   -.0370

ALPHAO(2) =   -4.180   BETAO (2) =   -4.103

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.2144   -.0807
    .010   -.0671
    .020   -.0594
    .040   -.0482
    .041   -.2196
    .113   -.2499
    .163   .0480
    .246   -.0229
    .247   -.1590
    .390   -.1048
    .429   -.0754
    .547   -.0575
    .637   -.0117
    .638   -.1472
    .727   -.0918
    .793   .1810
    .798   -.0318

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(2) =   -4.157   BETAO (3) =   -.002

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1916	-.0893
.010		-.0523
.020		-.0285
.040		-.0149
.041	-.1675	
.113	-.1681	
.163		.0868
.246		-.0152
.247	-.1388	
.390		-.1196
.429	-.0563	
.547	-.0467	
.637		-.1276
.638	-.1372	
.727	-.1592	
.793	.1742	
.798		-.0293

ALPHAO(2) =   -4.134   BETAO (4) =   4.138

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1419	-.0551
.010		-.0135
.020		.0044
.040		.0168
.041	-.0415	
.113	-.0820	
.163		.1362
.246		.0032
.247	-.0792	
.390		-.1258
.429	-.0295	
.547	-.0178	
.637		-.2342
.638	-.1301	
.727	-.1746	
.793	.0896	
.798		-.0119

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(2) =   -4.123   BETAO (5) =   6.209

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.0819   -.0210
  .010   .0140
  .020   .0294
  .040   .0409
  .041   .0279
  .113   -.0525
  .163   .1528
  .246   .0155
  .247   -.0491
  .390   -.1202
  .429   -.0148
  .547   .0013
  .637   -.2340
  .638   -.1162
  .727   -.1697
  .793   -.0129
  .798   -.0197

ALPHAO(3) =   -2.103   BETAO (1) =   -6.173

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1845   -.1490
  .010   -.1298
  .020   -.1125
  .040   -.1027
  .041   -.2551
  .113   -.3027
  .163   .0440
  .246   -.0332
  .247   -.2132
  .390   -.1172
  .429   -.0854
  .547   -.0505
  .637   -.0415
  .638   -.1521
  .727   -.1119
  .793   .1507
  .798   -.0012

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(3) = -2.089   BETAO (2) = -2.072

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2229	-.0637
.010		-.0454
.020		-.0272
.040		-.0229
.041	-.2109	
.113	-.2192	
.163		.0457
.246		-.0519
.247	-.1868	
.390		-.1526
.429	-.0710	
.547	-.0812	
.637		-.1140
.638	-.1686	
.727	-.1606	
.793	.1547	
.798		-.0455

ALPHAO(3) = -2.053   BETAO (3) =   2.068

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2127	-.0892
.010		-.0590
.020		-.0411
.040		-.0275
.041	-.1457	
.113	-.1398	
.163		.0845
.246		-.0466
.247	-.1247	
.390		-.1682
.429	-.0590	
.547	-.0553	
.637		-.2491
.638	-.1716	
.727	-.1920	
.793	.0713	
.798		-.0454

                                ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(3) =   -2.034   BETAO (4) =   6.180

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

 X/CW
   .000   -.0864   -.0274
   .010   -.0120
   .020   .0062
   .040   .0161
   .041   .0145
   .113   -.0614
   .163   .1157
   .246   -.0188
   .247   -.0555
   .390   -.1527
   .429   -.0349
   .547   -.0173
   .637   -.2603
   .638   -.1385
   .727   -.1891
   .793   -.1397
   .798   -.0820

ALPHAO(4) =   .003   BETAO (1) =   -6.180

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

 X/CW
   .000   -.1882   -.1971
   .010   -.1897
   .020   -.1625
   .040   -.1331
   .041   -.2701
   .113   -.3223
   .163   .0220
   .246   -.0568
   .247   -.2441
   .390   -.1486
   .429   -.0877
   .547   -.0581
   .637   -.1016
   .638   -.1681
   .727   -.1588
   .793   .1231
   .798   -.0684

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(4) =   .006   BETAO (2) =   -4.126

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1893	-.1473
.010		-.1019
.020		-.0849
.040		-.0763
.041	-.2379	
.113	-.2867	
.163		.0257
.246		-.0608
.247	-.2144	
.390		-.1615
.429	-.0871	
.547	-.0651	
.637		-.1727
.638	-.1690	
.727	-.1829	
.793	.1147	
.798		-.0595

ALPHAO(4) =   .015   BETAO (3) =   -.027

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2403	-.0858
.010		-.0629
.020		-.0289
.040		-.0197
.041	-.1837	
.113	-.2150	
.163		.0341
.246		-.0685
.247	-.1677	
.390		-.1921
.429	-.0867	
.547	-.0759	
.637		-.2721
.638	-.1813	
.727	-.2085	
.793	.0628	
.798		-.0703

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETRI2)

ALPHAO(4) =   .024   BETAO (4) =   4.105

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1039	-.0709
.010		-.0650
.020		-.0403
.040		-.0267
.041	-.0718	
.113	-.1490	
.163		.0684
.246		-.0598
.247	-.1027	
.390		-.1898
.429	-.0650	
.547	-.0524	
.637		-.2920
.638	-.1771	
.727	-.2154	
.793	-.1602	
.798		-.1163

ALPHAO(4) =   .038   BETAO (5) =   6.165

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.0497	-.0315
.010		-.0346
.020		-.0173
.040		-.0095
.041	-.0105	
.113	-.1072	
.163		.0813
.246		-.0559
.247	-.0652	
.390		-.1863
.429	-.0528	
.547	-.0364	
.637		-.2907
.638	-.1662	
.727	-.2129	
.793	-.2011	
.798		-.1433

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

                                  ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(5) =   2.130   BETAO (1) =   -6.171

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1510   -.2407
    .010   -.2133
    .020   -.1981
    .040   -.1762
    .041   -.2621
    .113   -.3389
    .163   .0167
    .246   -.0722
    .247   -.2534
    .390   -.1830
    .429   -.0803
    .547   -.0621
    .637   -.2213
    .638   -.1834
    .727   -.2062
    .793   .0750
    .798   -.0825

ALPHAO(5) =   2.133   BETAO (2) =   -2.078

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1339   -.1941
    .010   -.1061
    .020   -.0758
    .040   -.0603
    .041   -.1901
    .113   -.2825
    .163   -.0007
    .246   -.0829
    .247   -.2062
    .390   -.2173
    .429   -.0708
    .547   -.0894
    .637   -.2890
    .638   -.2006
    .727   -.2244
    .793   .0305
    .798   -.0884

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(5) =   2.141   BETAO (3) =   2.056

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1234	-.0910
.010		-.0891
.020		-.0509
.040		-.0352
.041	-.1490	
.113	-.2153	
.163		.0293
.246		-.0857
.247	-.1376	
.390		-.2199
.429	-.0808	
.547	-.0734	
.637		-.3115
.638	-.2088	
.727	-.2316	
.793	-.1585	
.798		-.1377

ALPHAO(5) =   2.152   BETAO (4) =   6.169

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0219	-.0314
.010		-.0502
.020		-.0357
.040		-.0262
.041	-.0608	
.113	-.1346	
.163		.0464
.246		-.0808
.247	-.0741	
.390		-.2132
.429	-.0685	
.547	-.0419	
.637		-.3154
.638	-.1824	
.727	-.2281	
.793	-.2315	
.798		-.1999

　　　　　IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP　　　　　(RETR12)

ALPHAO(6) =   4.219   BETAO (1) = -6.158

SECTION (1)RIGHT WING TOP　　　　　DEPENDENT VARIABLE CP

Y/BW　　　.2350　.3640

X/CW		
.000	-.1462	-.2963
.010		-.2494
.020		-.2327
.040		-.2376
.041	-.2692	
.113	-.3263	
.163		-.0273
.246		-.0888
.247	-.2503	
.390		-.2086
.429	-.0811	
.547	-.0737	
.637		-.2951
.638	-.2037	
.727	-.2327	
.793	.0125	
.798		-.1166

ALPHAO(6) =   4.218   BETAO (2) = -4.108

SECTION (1)RIGHT WING TOP　　　　　DEPENDENT VARIABLE CP

Y/BW　　　.2350　.3640

X/CW		
.000	-.1075	-.3439
.010		-.2496
.020		-.1753
.040		-.1386
.041	-.2283	
.113	-.3112	
.163		-.0135
.246		-.0945
.247	-.2073	
.390		-.2141
.429	-.0788	
.547	-.0705	
.637		-.3016
.638	-.2030	
.727	-.2335	
.793	.0121	
.798		-.1173

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR12)

ALPHAO(6) =   4.224   BETAO (3) =   -.013

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1663	-.1814
.010		-.1675
.020		-.1351
.040		-.1169
.041	-.1925	
.113	-.2668	
.163		-.0260
.246		-.1046
.247	-.1573	
.390		-.2471
.429	-.0861	
.547	-.0812	
.637		-.3316
.638	-.2243	
.727	-.2545	
.793	-.1466	
.798		-.1556

ALPHAO(6) =   4.226   BETAO (4) =   4.116

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0855	-.0763
.010		-.0898
.020		-.0485
.040		-.0340
.041	-.1408	
.113	-.1923	
.163		-.0155
.246		-.1188
.247	-.0982	
.390		-.2478
.429	-.0954	
.547	-.0738	
.637		-.3425
.638	-.2222	
.727	-.2602	
.793	-.2481	
.798		-.2110

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR12)

ALPHAO(6) =   4.218   BETAO (5) =   6.193

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.0361	-.0342
.010		-.0629
.020		-.0429
.040		-.0213
.041	-.0846	
.113	-.1374	
.163		-.0111
.246		-.1210
.247	-.0698	
.390		-.2485
.429	-.0886	
.547	-.0605	
.637		-.3395
.638	-.2090	
.727	-.2537	
.793	-.2543	
.798		-.2448

ALPHAO(7) =   6.323   BETAO (1) =   -4.082

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1312	-.4092
.010		-.3438
.020		-.2796
.040		-.2340
.041	-.2333	
.113	-.2981	
.163		-.0506
.246		-.1247
.247	-.2080	
.390		-.2451
.429	-.0889	
.547	-.0858	
.637		-.3373
.638	-.2293	
.727	-.2623	
.793	-.0287	
.798		-.1580

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR12)

ALPHAO(7) =   6.327   BETAO (2) =   -2.045

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1350	-.3438
.010		-.2969
.020		-.2440
.040		-.2150
.041	-.1915	
.113	-.2666	
.163		-.0522
.246		-.1406
.247	-.1866	
.390		-.2681
.429	-.0955	
.547	-.0976	
.637		-.3494
.638	-.2419	
.727	-.2700	
.793	-.0853	
.798		-.1714

ALPHAO(7) =   6.326   BETAO (3) =   .008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1892	-.2485
.010		-.2207
.020		-.1811
.040		-.1614
.041	-.2086	
.113	-.2491	
.163		-.0628
.246		-.1437
.247	-.1410	
.390		-.2785
.429	-.1017	
.547	-.0940	
.637		-.3653
.638	-.2535	
.727	-.2825	
.793	-.2102	
.798		-.1971

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR12)

ALPHAO(7) =   6.323   BETAO (4) =   2.079

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1590	-.1415
.010		-.1458
.020		-.1189
.040		-.1078
.041	-.1834	
.113	-.2223	
.163		-.0945
.246		-.1411
.247	-.1152	
.390		-.2797
.429	-.1084	
.547	-.1075	
.637		-.3686
.638	-.2498	
.727	-.2806	
.793	-.2624	
.798		-.2321

ALPHAO(7) =   6.317   BETAO (5) =   4.142

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1173	-.0431
.010		-.0765
.020		-.0536
.040		-.0459
.041	-.1413	
.113	-.1821	
.163		-.0858
.246		-.1592
.247	-.0858	
.390		-.2831
.429	-.1206	
.547	-.1024	
.637		-.3708
.638	-.2432	
.727	-.2856	
.793	-.2797	
.798		-.2538

                                                                                        PARAMETRIC DATA
                    REFERENCE DATA
                                                                            MACH   =   .600   RN/FT =   2.250
SREF =   2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   ELV-IB =   8.000   ELV-OB =   .000
LREF =   1297.0000 INCHES   YMRP =   .0000 IN. YT   RUDDER =   .000   SPDBRK =   .000
BREF =   1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.055   BETAO (1) =   -.005

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1763   .0217
   .010   .0883
   .020   .1140
   .040   .1227
   .041   -.1127
   .113   -.0553
   .163   .1612
   .246   -.0450
   .247   .0232
   .390   -.1814
   .429   .0499
   .547   -.0758
   .637   -.1260
   .638   -.1640
   .727   -.0896
   .793   .0217
   .798   -.2797

ALPHAO(2) =   -4.020   BETAO (1) =   -4.064

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.2266   .0378
   .010   .0598
   .020   .0726
   .040   .0803
   .041   -.1763
   .113   -.1008
   .163   .1013
   .246   -.1047
   .247   -.0171
   .390   -.2343
   .429   .0081
   .547   -.1239
   .637   -.1820

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR13)

ALPHAO(2) =   -4.020   BETAO (1) =   -4.064

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
     .638   -.2174
     .727   -.1462
     .793   -.0335
     .798   -.3287

ALPHAO(2) =   -3.985   BETAO (2) =   .001

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
     .000   -.1830   .0588
     .010   .0910
     .020   .1073
     .040   .1124
     .041   -.1310
     .113   -.0718
     .163   .1073
     .246   -.1152
     .247   .0047
     .390   -.2325
     .429   .0195
     .547   -.1182
     .637   -.1432
     .638   -.2030
     .727   -.1055
     .793   .0068
     .798   -.2714

ALPHAO(2) =   -3.974   BETAO (3) =   4.077

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
     .000   -.1364   .0845
     .010   .1333
     .020   .1461
     .040   .1487
     .041   -.0803
     .113   -.0377
     .163   .1179
     .246   -.1212

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR13)

ALPHAO(2) = -3.974   BETAO (3) =   4.077

SECTION (1)RIGHT WING TOP   .   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.247   .0230
.390   -.2305
.429   .0317
.547   -.1127
.637   -.0966
.638   -.1878
.727   -.0704
.793   .0527
.798   -.2372

ALPHAO(3) =   .096   BETAO (1) = -6.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.2720 -.0487
.010   -.0191
.020   -.0107
.040   -.0027
.041   -.2205
.113   -.1342
.163   -.0228
.246   -.1972
.247   -.0459
.390   -.3123
.429   -.0390
.547   -.1963
.637   -.2220
.638   -.2831
.727   -.1903
.793   -.0762
.798   -.3224

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR13)

ALPHAO(3) =   .098   BETAO (2) =   -4.070

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.2451 -.0239
 .010   .0060
 .020   .0212
 .040   .0233
 .041   -.2041
 .113   -.1261
 .163   -.0161
 .246   -.2262
 .247   -.0419
 .390   -.3302
 .429   -.0419
 .547   -.2104
 .637   -.2062
 .638   -.2872
 .727   -.1747
 .793   -.0465
 .798   -.3051

ALPHAO(3) =   .086   BETAO (3) =   -.016

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.1905   .0456
 .010   .0545
 .020   .0619
 .040   .0634
 .041   -.1669
 .113   -.1000
 .163   -.0053
 .246   -.2434
 .247   -.0335
 .390   -.3440
 .429   -.0319
 .547   -.2057
 .637   -.1673
 .638   -.2721
 .727   -.1400
 .793   -.0100
 .798   -.2685

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI3)

ALPHAO(3) =   .117   BETAO (4) =   4.075

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1354	.1024
.010		.0921
.020		.1003
.040		.0972
.041	-.1173	
.113	-.0749	
.163		-.0173
.246		-.2675
.247	-.0113	
.390		-.3508
.429	-.0304	
.547	-.2160	
.637		-.1227
.638	-.2708	
.727	-.1016	
.793	.0500	
.798		-.2295

ALPHAO(3) =   .121   BETAO (5) =   6.104

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1063	.1255
.010		.1120
.020		.1120
.040		.1136
.041	-.0896	
.113	-.0527	
.163		-.0153
.246		-.2750
.247	.0003	
.390		-.3511
.429	-.0200	
.547	-.2071	
.637		-.0986
.638	-.2596	
.727	-.0856	
.793	.0763	
.798		-.2079

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR13)

ALPHAO(4) =   4.241   BETAO (1) =   -4.062

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2755	-.1904
.010		-.0939
.020		-.0721
.040		-.0648
.041	-.2304	
.113	-.1579	
.163		-.1448
.246		-.3493
.247	-.0688	
.390		-.4188
.429	-.0896	
.547	-.2915	
.637		-.2283
.638	-.3589	
.727	-.1993	
.793	-.0519	
.798		-.3015

ALPHAO(4) =   4.240   BETAO (2) =   -.004

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2039	-.0830
.010		-.0420
.020		-.0275
.040		-.0218
.041	-.1858	
.113	-.1365	
.163		-.1489
.246		-.3825
.247	-.0638	
.390		-.4359
.429	-.0866	
.547	-.3015	
.637		-.1827
.638	-.3451	
.727	-.1676	
.793	.0016	
.798		-.2649

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR13)

ALPHAO(4) =   4.238   BETAO (3) =   4.073

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1400	-.0116
.010		-.0111
.020		-.0049
.040		-.0034
.041	-.1462	
.113	-.0975	
.163		-.1650
.246		-.4190
.247	-.0411	
.390		-.4557
.429	-.0784	
.547	-.3066	
.637		-.1391
.638	-.3464	
.727	-.1386	
.793	.0519	
.798		-.2195

ALPHAO(5) =   8.385   BETAO (1) =   -.010

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2199	-.2856
.010		-.1919
.020		-.1536
.040		-.1448
.041	-.2106	
.113	-.1433	
.163		-.2991
.246		-.5185
.247	-.0812	
.390		-.5195
.429	-.1355	
.547	-.3927	
.637		-.2142
.638	-.4165	
.727	-.1800	
.793	.0280	
.798		-.2763

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR13)

ALPHAO(6) = 10.456   BETAO (1) =   .002

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2292	-.3985
.010		-.2659
.020		-.2210
.040		-.2052
.041	-.2261	
.113	-.1629	
.163		-.3669
.246		-.5831
.247	-.0961	
.390		-.5535
.429	-.1501	
.547	-.4245	
.637		-.2343
.638	-.4469	
.727	-.1863	
.793	.0233	
.798		-.2940

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.400   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   -4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.312   BETAO (1) =   -4.066

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1967   -.0648
   .010   -.0518
   .020   -.0394
   .040   -.0320
   .041   -.1939
   .113   -.2305
   .163   .0739
   .246   .0132
   .247   -.1376
   .390   -.0669
   .429   -.0602
   .547   -.0385
   .637   .0408
   .638   -.1258
   .727   -.0642
   .793   .2337
   .798   -.0058

ALPHAO(1) =   -6.295   BETAO (2) =   -2.013

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1815   -.0621
   .010   -.0447
   .020   -.0258
   .040   -.0165
   .041   -.1635
   .113   -.2001
   .163   .0089
   .246   .0102
   .247   -.1275
   .390   -.0726
   .429   -.0553
   .547   -.0376
   .637   .0375

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR14)

ALPHAO(1) =   -6.295   BETAO (2) =   -2.013

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .638   -.1260
  .727   -.0494
  .793   .2232
  .798   -.0160

ALPHAO(1) =   -6.258   BETAO (3) =   .056

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.2030   -.1054
  .010   -.0524
  .020   -.0310
  .040   -.0171
  .041   -.1221
  .113   -.1618
  .163   .1146
  .246   .0204
  .247   -.1072
  .390   -.0794
  .429   -.0449
  .547   -.0279
  .637   -.0006
  .638   -.1252
  .727   -.0766
  .793   .2076
  .798   -.0176

ALPHAO(1) =   -6.244   BETAO (4) =   2.126

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.2024   -.0938
  .010   -.0316
  .020   -.0097
  .040   .0012
  .041   -.0719
  .113   -.1155
  .163   .1351
  .246   .0278

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(1) = -6.244   BETAO (4) =   2.126

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .247   -.0876
  .390   -.0808
  .429   -.0270
  .547   -.0186
  .637   -.1062
  .638   -.1093
  .727   -.1251
  .793   .1927
  .798   .0002

ALPHAO(1) = -6.233   BETAO (5) =   4.187

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.0899   -.0661
  .010   -.0078
  .020   .0143
  .040   .0267
  .041   -.0068
  .113   -.0707
  .163   .1619
  .246   .0403
  .247   -.0630
  .390   -.0837
  .429   -.0109
  .547   .0022
  .637   -.1976
  .638   -.1051
  .727   -.1498
  .793   .1671
  .798   .0358

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR14)

ALPHAO(2) =   -4.204   BETAO (1) =   -6.151

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1656	-.1114
.010		-.0947
.020		-.0860
.040		-.0807
.041	-.2411	
.113	-.2891	
.163		.0580
.246		-.0163
.247	-.1879	
.390		-.1005
.429	-.0795	
.547	-.0501	
.637		.0121
.638	-.1488	
.727	-.0879	
.793	.1769	
.798		-.0390

ALPHAO(2) =   -4.193   BETAO (2) =   -4.092

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2178	-.0796
.010		-.0654
.020		-.0548
.040		-.0468
.041	-.2215	
.113	-.2540	
.163		.0491
.246		-.0205
.247	-.1699	
.390		-.1025
.429	-.0734	
.547	-.0542	
.637		-.0081
.638	-.1479	
.727	-.0907	
.793	.1845	
.798		-.0324

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(2) =   -4.164   BETAO (3) =   .031

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2029	-.0984
.010		-.0597
.020		-.0377
.040		-.0225
.041	-.1763	
.113	-.1738	
.163		.0848
.246		-.0157
.247	-.1468	
.390		-.1251
.429	-.0619	
.547	-.0514	
.637		-.1118
.638	-.1475	
.727	-.1642	
.793	.1697	
.798		-.0313

ALPHAO(2) =   -4.142   BETAO (4) =   4.151

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1524	-.0602
.010		-.0215
.020		-.0035
.040		.0083
.041	-.0503	
.113	-.0899	
.163		.1303
.246		-.0001
.247	-.0856	
.390		-.1332
.429	-.0348	
.547	-.0252	
.637		-.2382
.638	-.1366	
.727	-.1809	
.793	.0866	
.798		-.0123

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI4)

ALPHAO(2) =   -4.129   BETAO (5) =   6.220

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.0921   -.0261
 .010   .0114
 .020   .0254
 .040   .0356
 .041   .0241
 .113   -.0533
 .163   .1499
 .246   .0114
 .247   -.0524
 .390   -.1243
 .429   -.0196
 .547   -.0031
 .637   -.2395
 .638   -.1196
 .727   -.1732
 .793   -.0112
 .798   -.0202

ALPHAO(3) =   -2.093   BETAO (1) =   -6.169

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.1969   -.1535
 .010   -.1371
 .020   -.1191
 .040   -.1079
 .041   -.2653
 .113   -.3121
 .163   .0417
 .246   -.0364
 .247   -.2247
 .390   -.1222
 .429   -.0897
 .547   -.0550
 .637   -.0485
 .638   -.1609
 .727   -.1188
 .793   .1482
 .798   -.0585

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR14)

ALPHAO(3) =   -2.078   BETAO (2) =   -2.063

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2323	-.0737
.010		-.0511
.020		-.0359
.040		-.0288
.041	-.2189	
.113	-.2267	
.163		.0367
.246		-.0576
.247	-.1966	
.390		-.1587
.429	-.0691	
.547	-.0831	
.637		-.1212
.638	-.1699	
.727	-.1690	
.793	.1493	
.798	.	-.0459

ALPHAO(3) =   -2.057   BETAO (3) =   2.077

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2220	-.0977
.010		-.0670
.020		-.0463
.040		-.0336
.041	-.1526	
.113	-.1479	
.163		.0768
.246		-.0516
.247	-.1331	
.390		-.1724
.429	-.0670	
.547	-.0633	
.637		-.2592
.638	-.1792	
.727	-.1985	
.793	.0675	
.798		-.0466

ARCII-019 IA8I LVAP(ELHL SEALED) RT. WING TOP   (RETRI4)

ALPHAO(3) =   -2.039   BETAO (4) =   6.185

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.0808	-.0344
.010		-.0177
.020		-.0037
.040		.0083
.041	.0028	
.113	-.0721	
.163		.1099
.246		-.0260
.247	-.0622	
.390		-.1589
.429	-.0430	
.547	-.0263	
.637		-.2707
.638	-.1511	
.727	-.1973	
.793	-.1493	
.798		-.0869

ALPHAO(4) =   .021   BETAO (1) =   -6.181

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1973	-.2032
.010		-.1964
.020		-.1735
.040		-.1363
.041	-.2791	
.113	-.3317	
.163		.0219
.246		-.0608
.247	-.2528	
.390		-.1540
.429	-.0893	
.547	-.0626	
.637		-.1032
.638	-.1722	
.727	-.1679	
.793	.1219	
.798		-.0708

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(4) =   .023   BETAO (2) = -4.121

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.2015 -.1637
  .010   -.1089
  .020   -.0916
  .040   -.0854
  .041   -.2467
  .113   -.3015
  .163   .0233
  .246   -.0613
  .247   -.2223
  .390   -.1656
  .429   -.0860
  .547   -.0678
  .637   -.1826
  .638   -.1730
  .727   -.1873
  .793   .1096
  .798   -.0605

ALPHAO(4) =   .027   BETAO (3) = -2.070

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.2285 -.1100
  .010   -.0673
  .020   -.0453
  .040   -.0342
  .041   -.2040
  .113   -.2520
  .163   .0190
  .246   -.0719
  .247   -.2044
  .390   -.1880
  .429   -.0732
  .547   -.0874
  .637   -.2421
  .638   -.1799
  .727   -.2022
  .793   .0960
  .798   -.0577

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR14)

ALPHAO(4) =   .027   BETAO (4) =   -.007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2532	-.0980
.010		-.0732
.020		-.0409
.040		-.0276
.041	-.1908	
.113	-.2197	
.163		.0264
.246		-.0754
.247	-.1734	
.390		-.2017
.429	-.0943	
.547	-.0806	
.637		-.2796
.638	-.1927	
.727	-.2150	
.793	.0581	
.798		-.0743

ALPHAO(4) =   .038   BETAO (5) =   4.112

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1148	-.0761
.010		-.0705
.020		-.0451
.040		-.0324
.041	-.0761	
.113	-.1529	
.163		.0621
.246		-.0631
.247	-.1074	
.390		-.1975
.429	-.0714	
.547	-.0578	
.637		-.2976
.638	-.1839	
.727	-.2214	
.793	-.1619	
.798		-.1166

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(4) =   .051   BETAO (6) =   6.174

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0367	-.0333
.010		-.0355
.020		-.0222
.040		-.0123
.041	-.0197	
.113	-.1098	
.163		.0803
.246		-.0572
.247	-.0677	
.390		-.1913
.429	-.0560	
.547	-.0395	
.637		-.2948
.638	-.1696	
.727	-.2158	
.793	-.2040	
.798		-.1482

ALPHAO(5) =   2.131   BETAO (1) =   -6.166

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1615	-.2528
.010		-.2215
.020		-.2100
.040		-.1952
.041	-.2742	
.113	-.3454	
.163		.0117
.246		-.0747
.247	-.2618	
.390		-.1881
.429	-.0837	
.547	-.0664	
.637		-.2339
.638	-.1884	
.727	-.2119	
.793	.0724	
.798		-.0839

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(5) =   2.132   BETAO (2) = -2.063

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1469	-.2139
.010		-.1237
.020		-.0849
.040		-.0675
.041	-.2000	
.113	-.2862	
.163		-.0036
.246		-.0849
.247	-.2087	
.390		-.2189
.429	-.0728	
.547	-.0930	
.637		-.2933
.638	-.2046	
.727	-.2279	
.793	.0261	
.798		-.0954

ALPHAO(5) =   2.136   BETAO (3) =   2.064

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1352	-.0984
.010		-.0978
.020		-.0588
.040		-.0378
.041	-.1510	
.113	-.2246	
.163		.0225
.246		-.0929
.247	-.1439	
.390		-.2234
.429	-.0873	
.547	-.0780	
.637		-.3162
.638	-.2132	
.727	-.2361	
.793	-.1674	
.798		-.1398

ARCII-019 IA8I LVAP(ELHL SEALED) RT. WING TOP   (RETRI4)

ALPHAO(5) =   2.148   BETAO (4) =   6.175

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.0293 -.0384
   .010   -.0545
   .020   -.0433
   .040   -.0309
   .041   -.0786
   .113   -.1413
   .163   .0422
   .246   -.0852
   .247   -.0808
   .390   -.2207
   .429   -.0774
   .547   -.0526
   .637   -.3215
   .638   -.1940
   .727   -.2362
   .793   -.2368
   .798   -.2028

ALPHAO(6) =   4.219   BETAO (1) =   -6.143

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1530 -.3001
   .010   -.2558
   .020   -.2397
   .040   -.2428
   .041   -.2762
   .113   -.3341
   .163   -.0285
   .246   -.0929
   .247   -.2502
   .390   -.2137
   .429   -.0855
   .547   -.0790
   .637   -.2991
   .638   -.2106
   .727   -.2360
   .793   .0049
   .798   -.1185

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

                                  ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(6) =   4.218   BETAO (2) =   -4.089

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1201	-.3627
.010		-.2747
.020		-.1898
.040		-.1527
.041	-.2385	
.113	-.3242	
.163		-.0226
.246		-.1037
.247	-.2236	
.390		-.2279
.429	-.0861	
.547	-.0805	
.637		-.1143
.638	-.2146	
.727	-.2450	
.793	-.0025	
.798		-.1250

ALPHAO(6) =   4.218   BETAO (3) =   .008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1772	-.1815
.010		-.1744
.020		-.1422
.040		-.1212
.041	-.2032	
.113	-.2757	
.163		-.0329
.246		-.1091
.247	-.1642	
.390		-.2528
.429	-.0954	
.547	-.0849	
.637		-.3392
.638	-.2329	
.727	-.2577	
.793	-.1599	
.798		-.1629

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR14)

ALPHAO(6) =   4.217   BETAO (4) =   4.126

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.0919   -.0814
   .010   -.0962
   .020   -.0545
   .040   -.0372
   .041   -.1463
   .113   -.1995
   .163   -.0214
   .246   -.1238
   .247   -.1039
   .390   -.2528
   .429   -.1039
   .547   -.0801
   .637   -.3499
   .638   -.2298
   .727   -.2642
   .793   -.2506
   .798   -.2150

ALPHAO(6) =   4.218   BETAO (5) =   6.196

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.0436   -.0355
   .010   -.0640
   .020   -.0467
   .040   -.0269
   .041   -.0910
   .113   -.1439
   .163   -.0182
   .246   -.1278
   .247   -.0721
   .390   -.2563
   .429   -.0972
   .547   -.0684
   .637   -.3470
   .638   -.2160
   .727   -.2557
   .793   -.2541
   .798   -.2458

IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR14)

ALPHAO(7) =   6.327   BETAO (1) =   -4.066

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1328	-.4109
.010		-.3465
.020		-.2878
.040		-.2361
.041	-.2355	
.113	-.3023	
.163		-.0527
.246		-.1278
.247	-.2067	
.390		-.2472
.429	-.0928	
.547	-.0851	
.637		-.3397
.638	-.2348	
.727	-.2636	
.793	-.0313	
.798		-.1612

ALPHAO(7) =   6.327   BETAO (2) =   -2.028

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1637	-.3503
.010		-.3029
.020		-.2515
.040		-.2239
.041	-.2000	
.113	-.2744	
.163		-.0591
.246		-.1474
.247	-.1873	
.390		-.2716
.429	-.1012	
.547	-.1055	
.637		-.3568
.638	-.2489	
.727	-.2744	
.793	-.0959	
.798		-.1764

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(7) =   6.325   BETAO (3) =   .021

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.1981   -.2499
 .010   -.2257
 .020   -.1801
 .040   -.1692
 .041   -.2204
 .113   -.2570
 .163   -.0694
 .246   -.1460
 .247   -.1463
 .390   -.2821
 .429   -.1063
 .547   -.0989
 .637   -.3717
 .638   -.2585
 .727   -.2861
 .793   -.2185
 .798   -.2066

ALPHAO(7) =   6.323   BETAO (4) =   2.091

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.1649   -.1357
 .010   -.1550
 .020   -.1274
 .040   -.1131
 .041   -.1906
 .113   -.2297
 .163   -.1085
 .246   -.1534
 .247   -.1218
 .390   -.2898
 .429   -.1181
 .547   -.1147
 .637   -.3775
 .638   -.2557
 .727   -.2876
 .793   -.2743
 .798   -.2369

DATE 21 OCT 75   IA8IA - PRESSURE SOURCE DATA TABULATION

                         ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR14)

ALPHAO(7) =   6.316   BETAO (5) =   4.148

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
    .000   -.1255   -.0552
    .010   -.0825
    .020   -.0592
    .040   -.0499
    .041   -.1487
    .113   -.1872
    .163   -.0933
    .246   -.1680
    .247   -.0901
    .390   -.2914
    .429   -.1301
    .547   -.1112
    .637   -.3780
    .638   -.2507
    .727   -.2883
    .793   -.2843
    .798   -.2611

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .900   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   6.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.170   BETAO (1) =   -4.069

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5331	.0742
.010		.1031
.020		.1251
.040		.1338
.041	-.2329	
.113	-.1838	
.163		.2094
.246		.0279
.247	.0566	
.390		-.1103
.429	.0901	
.547	-.0082	
.637		-.1175
.638	-.1080	
.727	-.0598	
.793	.0055	
.798		-.4535

ALPHAO(1) =   -6.165   BETAO (2) =   -2.034

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5254	.0875
.010		.1229
.020		.1451
.040		.1557
.041	-.2416	
.113	-.1345	
.163		.2250
.246		.0324
.247	.0675	
.390		-.1198
.429	.0995	
.547	-.0015	
.637		-.0927

DATE 21 OCT 75   IA8IA - PRESSURE SOURCE DATA TABULATION

                                  ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(1) =   -6.165   BETAO (2) =   -2.034

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1055	
.727	-.0384	
.793	.0396	
.798		-.4199

ALPHAO(1) =   -6.129   BETAO (3) =   .031

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5214	.0805
.010		.1339
.020		.1555
.040		.1680
.041	-.4615	
.113	-.0298	
.163		.2317
.246		.0229
.247	.0593	
.390		-.1378
.429	.1009	
.547	-.0082	
.637		-.0768
.638	-.1261	
.727	-.0302	
.793	.0657	
.798		-.3982

ALPHAO(1) =   -6.118   BETAO (4) =   2.093

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4971	.0832
.010		.1540
.020		.1793
.040		.1880
.041	-.4163	
.113	-.0114	
.163		.2437
.246		.0266

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ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR15)

ALPHAO(1) =   -6.118   BETAO (4) =   2.093

. SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	.0656	
.390		-.1483
.429	.1124	
.547	-.0076	
.637		-.0510
.638	-.1314	
.727	-.0130	
.793	.0945	
.798		-.3552

ALPHAO(1) =   -6.110   BETAO (5) =   4.138

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4619	.0863
.010		.1704
.020		.1953
.040		.2059
.041	-.4868	
.113	-.0091	
.163		.2485
.246		.0185
.247	.0728	
.390		-.1656
.429	.1195	
.547	-.0102	
.637		-.0336
.638	-.1369	
.727	-.0023	
.793	.1127	
.798		-.3196

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR15)

ALPHAO(2) =   -4.082   BETAO (1) =   -6.131

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5122	.0509
.010		.0681
.020		.0764
.040		.0875
.041	-.2774	
.113	-.2295	
.163		.1522
.246		-.0146
.247	.0288	
.390		-.1540
.429	.0657	
.547	-.0404	
.637		-.1624
.638	-.1432	
.727	-.1049	
.793	-.0355	
.798		-.4778

ALPHAO(2) =   -4.072   BETAO (2) =   -4.082

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5102	.0770
.010		.0913
.020		.1099
.040		.1178
.041	-.2543	
.113	-.1937	
.163		.1659
.246		-.0245
.247	.0406	
.390		-.1695
.429	.0701	
.547	-.0465	
.637		-.1347
.638	-.1536	
.727	-.0862	
.793	-.0056	
.798		-.4519

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR15)

ALPHAO(2) =   -4.058   BETAO (3) =   .016

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5136	.1057
.010		.1330
.020		.1512
.040		.1584
.041	-.5061	
.113	-.0450	
.163		.1868
.246		-.0405
.247	.0440	
.390		-.2128
.429	.0815	
.547	-.0560	
.637		-.0958
.638	-.1863	
.727	-.0575	
.793	.0474	
.798		-.4057

ALPHAO(2) =   -4.039   BETAO (4) =   4.120

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4541	.1253
.010		.1679
.020		.1854
.040		.1899
.041	-.4123	
.113	-.0381	
.163		.1949
.246		-.0529
.247	.0505	
.390		-.2505
.429	.0919	
.547	-.0666	
.637		-.0609
.638	-.2174	
.727	-.0411	
.793	.0866	
.798		-.3431

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI5)

ALPHAO(2) =   -4.035   BETAO (5) =   6.171

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4087	.1443
.010		.1880
.020		.2058
.040		.2096
.041	-.2766	
.113	-.0307	
.163		.1990
.246		-.0598
.247	.0569	
.390		-.2681
.429	.0953	
.547	-.0730	
.637		-.0367
.638	-.2275	
.727	-.0219	
.793	.1155	
.798		-.2924

ALPHAO(3) =   -2.011   BETAO (1) =   -6.134

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5115	.0377
.010		.0569
.020		.0674
.040		.0678
.041	-.2887	
.113	-.2548	
.163		.1084
.246		-.0504
.247	.0173	
.390		-.1976
.429	.0523	
.547	-.0753	
.637		-.1656
.638	-.1848	
.727	-.1186	
.793	-.0365	
.798		-.4733

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(3) =   -2.000   BETAO (2) =   -2.052

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4897	.0842
.010		.1031
.020		.1171
.040		.1239
.041	-.5504	
.113	-.0978	
.163		.1379
.246		-.0885
.247	.0281	
.390		-.2658
.429	.0564	
.547	-.0978	
.637		-.1301
.638	-.2366	
.727	-.0968	
.793	.0109	
.798		-.4348

ALPHAO(3) =   -1.985   BETAO (3) =   2.064

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4814	.1282
.010		.1429
.020		.1588
.040		.1630
.041	-.4893	
.113	-.0688	
.163		.1471
.246		-.1112
.247	.0303	
.390		-.3150
.429	.0650	
.547	-.1127	
.637		-.0979
.638	-.2938	
.727	-.0802	
.793	.0560	
.798		-.3881

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(3) =   -1.973   BETAO (4) =   6.153

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3962	.1697
.010		.1818
.020		.1883
.040		.1909
.041	-.3757	
.113	-.0707	
.163		.1459
.246		-.1263
.247	.0407	
.390		-.3477
.429	.0775	
.547	-.1207	
.637		-.0585
.638	-.3268	
.727	-.0574	
.793	.1069	
.798		-.3020

ALPHAO(4) =   .079   BETAO (1) =   -6.140

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5089	-.0121
.010		.0084
.020		.0187
.040		.0251
.041	-.3496	
.113	-.1893	
.163		.0350
.246		-.1161
.247	-.0076	
.390		-.2740
.429	.0145	
.547	-.1420	
.637		-.2076
.638	-.2670	
.727	-.1552	
.793	-.0576	
.798		-.4947

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR15)

ALPHAO(4) =   .084   BETAO (2) =   -4.099

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4706	-.0136
.010		.0330
.020		.0452
.040		.0486
.041	-.5080	
.113	-.1226	
.163		.0490
.246		-.1410
.247	.0017	
.390		-.3231
.429	.0189	
.547	-.1534	
.637		-.1826
.638	-.3090	
.727	-.1494	
.793	-.0315	
.798		-.4716

ALPHAO(4) =   .085   BETAO (3) =   -.004

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4435	.0743
.010		.0914
.020		.1025
.040		.1112
.041	-.4869	
.113	-.0889	
.163		.0827
.246		-.1719
.247	.0077	
.390		-.3782
.429	.0351	
.547	-.1637	
.637		-.1400
.638	-.3595	
.727	-.1323	
.793	.0161	
.798		-.4249

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ARCII-019 IA8I LVAP(ELHL SEALED)   RT. WING TOP   (RETRI5)

ALPHAO(4) =   .097   BETAO (4) =   4.092

SECTION (I)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4193   .1337
  .010   .1349
  .020   .1459
  .040   .1462   •
  .041   -.3706
  .113   -.0956
  .163   .0874
  .246   -.1843
  .247   .0161
  .390   -.4108
  .429   .0457
  .547   -.1769
  .637   -.1122
  .638   -.4105
  .727   -.1236
  .793   .0601
  .798   -.3508

ALPHAO(4) =   .102   BETAO (5) =   6.138

SECTION (I)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3540

X/CW
  .000   -.3787   .1612
  .010   .1502
  .020   .1597
  .040   .1639
  .041   -.2896
  .113   -.0920
  .163   .0843
  .246   -.1940
  .247   .0242
  .390   -.4289
  .429   .0569
  .547   -.1765
  .637   -.0866
  .638   -.4149
  .727   -.1080
  .793   .0961
  .798   -.2989

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR 5)

ALPHAO(5) =   2.176   BETAO (1) =   -6.134

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4869	-.0496
.010		-.0203
.020		-.0135
.040		-.0131
.041	-.4728	
.113	-.1937	
.163		-.0146
.246		-.1698
.247	-.0173	
.390		-.3394
.429	-.0040	
.547	-.1846	
.637		-.2359
.638	-.3272	
.727	-.1918	
.793	-.0724	
.798		-.5043

ALPHAO(5) =   2.181   BETAO (2) =   -2.059

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4351	-.0258
.010		.0264
.020		.0462
.040		.0538
.041	-.5059	
.113	-.1169	
.163		.0241
.246		-.2175
.247	-.0114	
.390		-.4274
.429	.0085	
.547	-.2160	
.637		-.1855
.638	-.4278	
.727	-.1882	
.793	-.0098	
.798		-.4596

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                        ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(5) =   2.185   BETAO (3) =   2.048

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.4065   .0660
   .010   .0774
   .020   .0919
   .040   .0946
   .041   -.4042
   .113   -.1199
   .163   .0306
   .246   -.2369
   .247   -.0033
   .390   -.4644
   .429   .0252
   .547   -.2220
   .637   -.1584
   .638   -.4632
   .727   -.1824
   .793   .0287
   .798   -.3771

ALPHAO(5) =   2.183   BETAO (4) =   6.140

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.3616   .1287
   .010   .1132
   .020   .1234
   .043   .1280
   .041   -.3011
   .113   -.1405
   .163   .0295
   .246   -.2503
   .247   .0125
   .390   -.4866
   .429   .0409
   .547   -.2253
   .637   -.0890
   .638   -.4798
   .727   -.1496
   .793   .1178
   .798   -.2808

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(6) =   4.251   BETAO (1) =   -6.118

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4736	-.0823
.010		-.0508
.020		-.0416
.040		-.0394
.041	-.5376	
.113	-.1895	
.163		-.0587
.246		-.2102
.247	-.0260	
.390		-.3898
.429	-.0177	
.547	-.2229	
.637		-.2615
.638	-.3901	
.727	-.2284	
.793	-.0910	
.798		-.5187

ALPHAO(6) =   4.253   BETAO (2) =   -4.076

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4393	-.1294
.010		-.0365
.020		-.0153
.040		-.0093
.041	-.5237	
.113	-.1402	
.163		-.0434
.246		-.2347
.247	-.0331	
.390		-.4432
.429	-.0115	
.547	-.2322	
.637		-.2355
.638	-.4623	
.727	-.2291	
.793	-.0487	
.798		-.4824

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(6) =   4.252   BETAO (3) =   .002

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4012	-.0401
.010		.0079
.020		.0340
.040		.0378
.041	-.4591	
.113	-.1375	
.163		-.0178
.246		-.2747
.247	-.0204	
.390		-.5063
.429	.0015	
.547	-.2633	
.637		-.1919
.638	-.5119	
.727	-.2395	
.793	.0219	
.798		-.3918

ALPHAO(6) =   4.253   BETAO (4) =   4.095

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3725	.0513
.010		.0559
.020		.0741
.040		.0772
.041	-.3283	
.113	-.1348	
.163		-.0193
.246		-.2881
.247	-.0083	
.390		-.5379
.429	.0161	
.547	-.2723	
.637		-.1522
.638	-.5409	
.727	-.2148	
.793	.0901	
.798		-.3244

ARC11-019 IA81 LVAP(ELHL SEALED) .:T. WING TOP   (RETR15)

ALPHAO(6) =   4.245   BETAO (5) =   6.148

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3367	.0809
.010		.0726
.020		.0889
.040		.0911
.041	-.2691	
.113	-.1521	
.163		-.0200
.246		-.2938
.247	-.0037	
.390		-.5494
.429	.0259	
.547	-.2676	
.637		-.1072
.638	-.5379	
.727	-.1724	
.793	.1374	
.798		-.2947

ALPHAO(7) =   5.304   BETAO (1) =   -4.072

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4351	-.1636
.010		-.0502
.020		-.0331
.040		-.0278
.041	-.5150	
.113	-.1587	
.163		-.0677
.246		-.2581
.247	-.0496	
.390		-.4728
.429	-.0229	
.547	-.2613	
.637		-.2653
.638	-.4933	
.727	-.2539	
.793	-.0650	
.798		-.4845

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR15)

ALPHAO(7) =   5.305   BETAO (2) =   -2.036

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.4077   -.1388
   .010   -.0406
   .020   -.0093
   .040   .0009
   .041   -.4775
   .113   -.1338
   .163   -.0391
   .246   -.2763
   .247   -.0263
   .390   -.5052
   .42c   -.0051
   .54,   -.2692
   .637   -.2291
   .638   -.5145
   .727   -.2521
   .793   -.0021
   .798   -.4096

ALPHAO(7) =   5.302   BETAO (3) =   .007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.3874   -.0760
   .010   -.0131
   .020   .0119
   .040   .0213
   .041   -.4458
   .113   -.1481
   .163   -.0385
   .246   -.2927
   .247   -.0298
   .390   -.5298
   .429   -.0071
   .547   -.2869
   .637   -.1965
   .638   -.5459
   .727   -.2476
   .793   .0369
   .798   -.3817

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR15)

ALPHAO(7) =   5.302   BETAO (4) =   2.065

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.3640   -.0224
.010   .0114
.020   .0368
.040   .0399
.041   -.3939
.113   -.1507
.163   -.0455
.246   -.3025
.247   -.0204
.390   -.5493
.429   .0042
.547   -.2825
.637   -.1693
.638   -.5492
.727   -.2289
.793   .0710
.798   -.3476

ALPHAO(7) =   5.298   BETAO (5) =   4.107

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.3386   .0208
.010   .0283
.020   .0553
.040   .0587
.041   -.3314
.113   -.1519
.163   -.0434
.246   -.3078
.247   -.0153
.390   -.5640
.429   .0090
.547   -.2865
.637   -.1458
.638   -.5641
.727   -.2172
.793   .1035
.798   -.3259

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	976.0000 IN. XT	
LREF	=	1297.0000 INCHES	YMRP	=	.0000 IN. YT	
BREF	=	1297.0000 INCHES	ZMRP	=	400.0000 IN. ZT	
SCALE	=	.0300 SCALE				

MACH	=	1.100	RN/FT =	2.250
ELV-IB	=	8.000	ELV-OB =	6.000
RUDDER	=	.000	SPDBRK =	.000

ALPHAO(1) = -6.246   BETAO (1) = -4.078

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3018	-.0078
.010		.0177
.020		.0385
.040		.0513
.041	-.4147	
.113	-.3674	
.163		.2297
.246		.1047
.247	-.1194	
.390		.0244
.429	.0160	
.547	.0869	
.637		.1460
.638	.0402	
.727	.1638	
.793	.2670	
.798		-.1145

ALPHAO(1) = -6.234   BETAO (2) = -2.033

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2591	.0000
.010		.0272
.020		.0530
.040		.0691
.041	-.3664	
.113	-.3255	
.163		.2587
.246		.0808
.247	-.0943	
.390		-.0010
.429	.0205	
.547	.0604	
.637		.1627

ARC11-019 IA81 LVAP(ELHL SEALED)   RT; WING TOP   (RETR16)

ALPHAO(1) = -6.234   BETAO (2) = -2.033

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	.0194	
.727	.1895	
.793	.2808	
.798		-.1008

ALPHAO(1) = -6.194   BETAO (3) =   .038

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2191	-.0270
.010		.0121
.020		.0427
.040		.0572
.041	-.3197	
.113	-.3120	
.163		.2725
.246		.0737
.247	-.0986	
.390		-.0482
.429	.0013	
.547	.0572	
.637		.1672
.638	-.0098	
.727	.1857	
.793	.2840	
.798		-.0942

ALPHAO(1) = -6.181   BETAO (4) =   2.103

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1794	-.0121
.010		.0327
.020		.0556
.040		.0664
.041	-.2761	
.113	-.2937	
.163		.2879
.246		.0707

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)

ALPHAO(1) =   -6.181   BETAO (4) =   2.103

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.0972	
.390		-.0838
.429	-.0053	
.547	.0537	
.637		.1734
.638	-.0669	
.727	.1866	
.793	.2889	
.798		-.0844

ALPHAO(1) =   -6.169   BETAO (5) =   4.159

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1504	.0027
.010		.0573
.020		.0823
.040		.0904
.041	-.2192	
.113	-.2610	
.163		.2934
.246		.0661
.247	-.0968	
.390		-.1065
.429	-.0027	
.547	.0523	
.637		.1855
.638	-.1092	
.727	.1753	
.793	.2998	
.798		-.0594

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ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI6)

ALPHAO(2) =   -4.136   BETAO (1) =   -6.157

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3313	-.0142
.010		.0096
.020		.0190
.040		.0362
.041	-.4559	
.113	-.4075	
.163		.1829
.246		.0610
.247	-.1381	
.390		-.0377
.429	.0442	
.547	.0442	
.637		.1050
.638	-.0156	
.727	.1174	
.793	.2155	
.798		-.1404

ALPHAO(2) =   -4.125   BETAO (2) =   -4.102

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2982	-.0182
.010		.0127
.020		.0352
.040		.0436
.041	-.4198	
.113	-.3734	
.163		.1869
.246		.0588
.247	-.1204	
.390		-.0518
.429	.0234	
.547	.0476	
.637		.1142
.638	-.0294	
.727	.1223	
.793	.2245	
.798		-.1282

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETRI6)

ALPHAO(2) =   -4.108   BETAO (3) =   .014

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2111	-.0087
.010		.0192
.020		.0477
.040		.0561
.041	-.3235	
.113	-.2956	
.163		.2467
.246		.0322
.247	-.1097	
.390		-.1184
.429	.0091	
.547	.0275	
.637		.1396
.638	-.1215	
.727	.1443	
.793	.2507	
.798		-.1015

ALPHAO(2) =   -4.082   BETAO (4) =   4.132

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1336	.0304
.010		.0523
.020		.0669
.040		.0699
.041	-.2323	
.113	-.2563	
.163		.2510
.246		.0148
.247	-.1390	
.390		-.1538
.429	-.0321	
.547	.0094	
.637		.1338
.638	-.1654	
.727	.0932	
.793	.2632	
.798		-.0709

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR16)

ALPHAO(2) =   -4.074   BETAO (5) =   6.189

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0922	.0693
.010		.0916
.020		.1091
.040		.1118
.041	-.1869	
.113	-.2095	
.163		.2689
.246		.0164
.247	-.1232	
.390		-.1721
.429	.0036	
.547	.0086	
.637		.1152
.638	-.1727	
.727	.0410	
.793	.2753	
.798		-.0407

ALPHAO(3) =   -2.033   BETAO (1) =   -6.165

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3266	-.0163
.010		.0052
.020		.0200
.040		.0213
.041	-.4553	
.113	-.4268	
.163		.1547
.246		.0247
.247	-.1494	
.390		-.0990
.429	.0593	
.547	.0129	
.637		.0714
.638	-.0893	
.727	.0784	
.793	.1823	
.798		-.1579

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR16)

ALPHAO(3) =   -2.021   BETAO (2) =   -2.073

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.2555   -.0268
   .010   .0093
   .020   .0379
   .040   .0497
   .041   -.3797
   .113   -.3285
   .163   .1888
   .246   -.0056
   .247   -.1396
   .390   -.1507
   .429   .0315
   .547   -.0005
   .637   .0921
   .638   -.1497
   .727   .0844
   .793   .2066
   .798   -.1277

ALPHAO(3) =   -2.004   BETAO (3) =   2.061

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1470   .0008
   .010   .0055
   .020   .0197
   .040   .0257
   .041   -.2729
   .113   -.2378
   .163   .2164
   .246   -.0181
   .247   -.1608
   .390   -.1888
   .429   -.0350
   .547   -.0124
   .637   .0764
   .638   -.1936
   .727   .0247
   .793   .2191
   .798   -.0955

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)

ALPHAO(3) =   -1.987   BETAO (4) =   6.166

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0852	.0717
.010		.0687
.020		.0791
.040		.0778
.041	-.2012	
.113	-.1762	
.163		.2231
.246		-.0324
.247	-.1795	
.390		-.2271
.429	-.0192	
.547	-.0277	
.637		.0257
.638	-.0134	
.727	-.0953	
.793	.2309	
.798		-.0549

ALPHAO(4) =   .070   BETAO (1) =   -6.166

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3163	-.0581
.010		-.0261
.020		-.0149
.040		-.0072
.041	-.4283	
.113	-.4283	
.163		.1260
.246		.0056
.247	-.1822	
.390		-.1336
.429	.0656	
.547	-.0021	
.637		.0370
.638	-.1363	
.727	.0356	
.793	.1577	
.798		-.1789

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETRI6)

ALPHAO(4) =   .076   BETAO (2) =   -4.111

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2773	-.1082
.010		-.0193
.020		.0103
.040		.0237
.041	-.3950	
.113	-.3604	
.163		.1435
.246		.0059
.247	-.1718	
.390		-.1553
.429	.0472	
.547	.0041	
.637		.0439
.638	-.1566	
.727	.0318	
.793	.1735	
.798		-.1592

ALPHAO(4) =   .084   BETAO (3) =   -.007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1716	-.0604
.010		-.0334
.020		.0060
.040		.0158
.041	-.3091	
.113	-.2478	
.163		.1789
.246		-.0486
.247	-.1773	
.390		-.2201
.429	.0165	
.547	-.0317	
.637		.0343
.638	-.2191	
.727	-.0358	
.793	.1850	
.798		-.1215

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETRI6)

ALPHAO(4) =   .099   BETAO (4) =   4.099

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0958	.0130
.010		.0005
.020		.0130
.040		.0160
.041	-.2195	
.113	-.1571	
.163		.1726
.246		-.0571
.247	-.1895	
.390		-.2430
.429	-.0543	
.547	-.0341	
.637		-.0268
.638	-.2323	
.727	-.1753	
.793	.1915	
.798		-.0819

ALPHAO(4) =   .104   BETAO (5) =   6.156

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0731	.0406
.010		.0251
.020		.0382
.040		.0403
.041	-.1919	
.113	-.1278	
.163		.1773
.246		-.0674
.247	-.1905	
.390		-.2779
.429	-.0323	
.547	-.0491	
.637		-.0491
.638	-.2377	
.727	-.2266	
.793	.1948	
.798		-.0629

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)

ALPHAO(5) =   2.179   BETAO (1) =   -6.160

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.2862 -.1032
   .010   -.0668
   .020   -.0479
   .040   -.0425
   .041   -.4011
   .113   -.4088
   .163   .0491
   .246   -.0257
   .247   -.2117
   .390   -.1642
   .429   .0535
   .547   -.0274
   .637   -.0024
   .638   -.1743
   .727   -.0102
   .793   .1421
   .798   -.1895

ALPHAO(5) =   2.183   BETAO (2) =   -2.076

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1981 -.1679
   .010   -.0663
   .020   -.0222
   .040   -.0007
   .041   -.3188
   .113   -.2939
   .163   .1177
   .246   -.0706
   .247   -.2152
   .390   -.2412
   .429   .0325
   .547   -.0532
   .637   -.0148
   .638   -.2321
   .727   -.0770
   .793   .1685
   .798   -.1493

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)

ALPHAO(5) =   2.194   BETAO (3) =   2.052

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1150	-.1039
.010		-.0843
.020		-.0442
.040		-.0232
.041	-.2544	
.113	-.1872	
.163		.1364
.246		-.0840
.247	-.2055	
.390		-.2750
.429	-.0357	
.547	-.0553	
.637		-.1039
.638	-.2642	
.727	-.2814	
.793	.1556	
.798		-.1172

ALPHAO(5) =   2.199   BETAO (4) =   6.158

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0564	.0019
.010		-.0251
.020		-.0123
.040		-.0082
.041	-.1808	
.113	-.0736	
.163		.1293
.246		-.1056
.247	-.1461	
.390		-.3309
.429	-.0514	
.547	-.0733	
.637		-.1245
.638	-.2786	
.727	-.3025	
.793	.1654	
.798		-.0765

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETRI6)

ALPHAO(6) =   4.246   BETAO (1) =   -6.141

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2574	-.1305
.010		-.0951
.020		-.0779
.040		-.0689
.041	-.3709	
.113	-.3915	
.163		-.0254
.246		-.0857
.247	-.2521	
.390		-.1995
.429	.0487	
.547	-.0625	
.637		-.0365
.638	-.2076	
.727	-.0618	
.793	.1302	
.798		-.2004

ALPHAO(6) =   4.252   BETAO (2) =   -4.091

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2149	-.2132
.010		-.1313
.020		-.1033
.040		-.0949
.041	-.3213	
.113	-.3392	
.163		.0321
.246		-.0956
.247	-.2627	
.390		-.2351
.429	.0338	
.547	-.0639	
.637		-.0639
.638	-.2324	
.727	-.1353	
.793	.1457	
.798		-.1836

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR16)

ALPHAO(6) =   4.259   BETAO (3) =   -.003

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1535	-.2388
.010		-.1393
.020		-.0836
.040		-.0637
.041	-.2753	
.113	-.2463	
.163		.0946
.246		-.1180
.247	-.2460	
.390		-.3097
.429	.0069	
.547	-.0880	
.637		-.1521
.638	-.3044	
.727	-.3174	
.793	.1570	
.798		-.1467

ALPHAO(6) =   4.261   BETAO (4) =   4.109

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0650	-.1246
.010		-.1226
.020		-.0876
.040		-.0681
.041	-.1898	
.113	-.1145	
.163		.0779
.246		-.1229
.247	-.1535	
.390		-.3281
.429	-.0590	
.547	-.0681	
.637		-.2113
.638	-.2988	
.727	-.3738	
.793	.1270	
.798		-.1164

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ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)

ALPHAC(6) =   4.259   BETAO (5) =   6.170

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0352	-.0800
.010		-.0955
.020		-.0561
.040		-.0423
.041	-.1804	
.113	-.0621	
.163		.0787
.246		-.1514
.247	-.1214	
.390		-.3888
.429	-.0470	
.547	-.1022	
.637		-.2359
.638	-.3144	
.727	-.3629	
.793	.1167	
.798		-.0975

ALPHAO(7) =   6.364   BETAO (1) =   -4.074

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1828	-.2497
.010		-.1737
.020		-.1351
.040		-.1166
.041	-.2937	
.113	-.3176	
.163		-.0034
.246		-.1324
.247	-.2883	
.390		-.2883
.429	.0366	
.547	-.0971	
.637		-.1173
.638	-.2890	
.727	-.2225	
.793	.1314	
.798		-.2028

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR16)

ALPHAO(7) =   6.367   BETAO (2) =   -2.043

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1662   -.3723
  .010   -.1947
  .020   -.1329
  .040   -.1113
  .041   -.2869
  .113   -.2818
  .163   .0322
  .246   -.1393
  .247   -.2734
  .390   -.3195
  .429   .0396
  .547   -.1087
  .637   -.1709
  .638   -.3185
  .727   -.3386
  .793   .1499
  .798   -.1935

ALPHAO(7) =   6.367   BETAO (3) =   .008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1456   -.4336
  .010   -.2309
  .020   -.1416
  .040   -.1180
  .041   -.2660
  .113   -.2333
  .163   .0496
  .246   -.1527
  .247   -.2424
  .390   -.3523
  .429   .0145
  .547   -.1129
  .637   -.2620
  .638   -.3426
  .727   -.3999
  .793   .1255
  .798   -.1789

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR16)

ALPHAO(7) =   6.364   BETAO (4) =   2.073

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1035	-.3598
.010		-.2399
.020		-.1568
.040		-.1315
.041	-.2297	
.113	-.1804	
.163		.0533
.246		-.1568
.247	-.2010	
.390		-.3673
.429	-.0262	
.547	-.0967	
.637		-.3169
.638	-.3425	
.727	-.4149	
.793	.0928	
.798		-.1614

ALPHAO(7) =   6.359   BETAO (5) =   4.124

-SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0605	-.2463
.010		-.2301
.020		-.1556
.040		-.1223
.041	-.1901	
.113	-.1125	
.163		.0318
.246		-.1651
.247	-.1509	
.390		-.3666
.429	-.0659	
.547	-.0922	
.637		-.3609
.638	-.3401	
.727	-.4138	
.793	.0732	
.798		-.1457

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   .900   RN/FT =   2.250
ELV-IB =   10.000   ELV-OB =   4.000
RUDDER =   .000   SPDBRK =   .000

ALPHAO(1) =   -6.178   BETAO (1) =   -4.055

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5284	.0838
.010		.1081
.020		.1294
.040		.1396
.041	-.2338	
.113	-.2179	
.163		.2140
.246		.0382
.247	.0661	
.390		-.0969
.429	.1037	
.547	.0079	
.637		-.1041
.638	-.0886	
.727	-.0464	
.793	.0158	
.798		-.4328

ALPHAO(1) =   -6.167   BETAO (2) =   -2.018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5188	.0864
.010		.1231
.020		.1445
.040		.1552
.041	-.2487	
.113	-.1182	
.163		.2267
.246		.0290
.247	.0674	
.390		-.1197
.423	.0968	
.547	-.0011	
.637		-.0895

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(1) =   -6.167   BETAO (2) =   -2.018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.639	-.1060	
.727	-.0390	
.793	.0424	
.798		-.4175

ALPHAO(1) =   -6.142   BETAO (3) =   .046

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5145	.0825
.010		.1369
.020		.1593
.040		.1700
.041	-.4875	
.113	-.0324	
.163		.2358
.246		.0284
.247	.0623	
.390		-.1340
.429	.1049	
.547	-.0039	
.637		-.0678
.638	-.1192	
.727	-.0256	
.793	.0699	
.798		-.3877

ALPHAO(1) =   -6.130   BETAO (4) =   2.104

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4965	.0816
.010		.1519
.020		.1781
.040		.1895
.041	-.4930	
.113	-.0123	
.163		.2427
.246		.0272

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(1) =   -6.130   BETAO (4) =   2.104

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .247   .0664
 .390   -.1491
 .429   .1135
 .547   -.0085
 .637   -.0492
 .638   -.1278
 .727   -.0138
 .793   .0926
 .798   -.3547

ALPHAO(1) =   -6.123   BETAO (5) =   4.151

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
 .000   -.4569   .0859
 .010   .1686
 .020   .1963
 .040   .2073
 .041   -.5028
 .113   -.0063
 .163   .2475
 .246   .0153
 .247   .0766
 .390   -.1660
 .429   .1217
 .547   -.0094
 .637   -.0291
 .638   -.1378
 .727   -.0002
 .793   .1166
 .798   -.3185

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(2) =   -4.089   BETAO (1) =   -6.119

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5107	.0588
.010		.0744
.020		.0880
.040		.0956
.041	-.2737	
.113	-.2566	
.163		.1569
.246		-.0052
.247	.0380	
.390		-.1411
.429	.0744	
.547	-.0332	
.637		-.1472
.638	-.1347	
.727	-.0926	
.793	-.0275	
.798		-.4650

ALPHAO(2) =   -4.079   BETAO (2) =   -4.073

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5080	.0768
.010		.0943
.020		.1079
.040		.1182
.041	-.2593	
.113	-.2111	
.163		.1683
.246		-.0231
.247	.0400	
.390		-.1670
.429	.0715	
.547	-.0455	
.637		-.1306
.638	-.1503	
.727	-.0823	
.793	-.0045	
.798		-.4492

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(2) =   -4.065   BETAO (3) =   .030

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.5137   .1049
  .010   .1352
  .020   .1516
  .040   .1592
  .041   -.5440
  .113   -.0519
  .163   .1899
  .246   -.0390
  .247   .0437
  .390   -.2117
  .429   .0801
  .547   -.0568
  .637   -.0914
  .638   -.1853
  .727   -.0553
  .793   .0514
  .798   -.4026

ALPHAO(2) =   -4.044   BETAO (4) =   4.123

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4578   .1277
  .010   .1693
  .020   .1864
  .040   .1910
  .041   -.4402
  .113   -.0424
  .163   .1948
  .246   -.0568
  .247   .0482
  .390   -.2589
  .429   .0887
  .547   -.0695
  .637   -.0614
  .638   -.2262
  .727   -.0389
  .793   .0904
  .798   -.3406

IA8IA - PRESSURE SOURCE DATA TABULATION

DATE 21 OCT 75

ARCII-019 IA8I LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(2) =   -4.041   BETAO (5) =   6.175

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.4031   .1471
   .010   .1892
   .020   .2067
   .040   .2097
   .041   -.3655
   .113   -.0356
   .163   .1976
   .246   -.0584
   .247   .0590
   .390   -.2676
   .429   .1011
   .547   -.0671
   .637   -.0322
   .638   -.2250
   .727   -.0208
   .793   .1190
   .798   -.2958

ALPHAO(3) =   -2.003   BETAO (1) =   -6.127

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.5245   .0341
   .010   .0524
   .020   .0616
   .040   .0647
   .041   -.2837
   .113   -.2158
   .163   .1010
   .246   -.0588
   .247   .0166
   .390   -.2090
   .429   .0419
   .547   -.0881
   .637   -.1780
   .638   -.1978
   .727   -.1241
   .793   -.0427
   .798   -.4859

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(3) =   -1.993   BETAO (2) =   -2.044

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4891	.0867
.010		.1056
.020		.1185
.040		.1250
.041	-.5476	
.113	-.0948	
.163		.1394
.246		-.0872
.247	.0255	
.390		-.2663
.429	.0567	
.547	-.0982	
.637		-.1267
.638	-.2409	
.727	-.0933	
.793	.0138	
.798		-.4354

ALPHAO(3) =   -1.979   BETAO (3) =   2.069

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4814	.1309
.010		.1443
.020		.1561
.040		.1614
.041	-.5058	
.113	-.0705	
.163		.1431
.246		-.1142
.247	.0305	
.390		-.3183
.429	.0644	
.547	-.1186	
.637		-.0967
.638	-.2992	
.727	-.0773	
.793	.0571	
.798		-.3868

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(3) =   -1.967   BETAO (4) =   6.153

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3994	.1622
.010		.1741
.020		.1860
.040		.1909
.041	-.3340	
.113	-.0710	
.163		.1424
.246		-.1318
.247	.0349	
.390		-.3524
.429	.0743	
.547	-.1241	
.637		-.0607
.638	-.3275	
.727	-.0622	
.793	.1022	
.798		-.3051

ALPHAO(4) =   .077   BETAO (1) = -6.130

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4985	-.0094
.010		.0126
.020		.0209
.040		.0304
.041	-.3607	
.113	-.2034	
.163		.0410
.246		-.1103
.247	-.0010	
.390		-.2617
.429	.0210	
.547	-.1324	
.637		-.1960
.638	-.2536	
.727	-.1498	
.793	-.0511	
.798		-.4894

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(4) =   .082   BETAO (2) =   -4.088

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4759	-.0096
.010		.0379
.020		.0474
.040		.0524
.041	-.5478	
.113	-.1408	
.163		.0520
.246		-.1344
.247	.0056	
.390		-.3120
.429	.0223	
.547	-.1492	
.637		-.1735
.638	-.2998	
.727	-.1412	
.793	-.0252	
.798		-.4628

ALPHAO(4) =   .083   BETAO (3) =   .004

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4443	.0778
.010		.0912
.020		.1075
.040		.1140
.041	-.4946	
.113	-.0946	
.163		.0858
.246		-.1688
.247	.0108	
.390		-.3777
.429	.0363	
.547	-.1646	
.637		-.1353
.638	-.3656	
.727	-.1292	
.793	.0200	
.798		-.4200

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(4) =   .096   BETAO (4) =   4.096

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4184   .1352
  .010   .1337
  .020   .1432
  .040   .1470
  .041   -.3979
  .113   -.1081
  .163   .0890
  .246   -.1835
  .247   .0151
  .390   -.4115
  .429   .0440
  .547   -.1766
  .637   -.1064
  .638   -.4089
  .727   -.1243
  .793   .0616
  .798   -.3533

ALPHAO(4) =   .101   BETAO (5) =   6.143

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.3800   .1606
  .010   .1530
  .020   .1622
  .040   .1622
  .041   -.2965
  .113   -.0981
  .163   .0860
  .246   -.1929
  .247   .0247
  .390   -.4226
  .429   .0544
  .547   -.1771
  .637   -.0809
  .638   -.4173
  .727   -.1117
  .793   .0978
  .798   -.2974

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(5) =   2.172   BETAO (1) =   -6.124

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4881	-.0476
.010		-.0168
.020		-.0156
.040		-.0099
.041	-.5052	
.113	-.2041	
.163		-.0095
.246		-.1645
.247	-.0141	
.390		-.3313
.429	.0000	
.547	-.1820	
.637		-.2292
.638	-.3229	
.727	-.1877	
.793	-.0708	
.798		-.4973

ALPHAO(5) =   2.177   BETAO (2) =   -2.050

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4332	-.0280
.010		.0285
.020		.0471
.040		.0551
.041	-.5082	
.113	-.1170	
.163		.0278
.246		-.2080
.247	-.0071	
.390		-.4184
.429	.0126	
.547	-.2099	
.637		-.1747
.638	-.4230	
.727	-.1811	
.793	-.0010	
.798		-.4455

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(5) =   2.180   BETAO (3) =   2.054

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4353	.0629
.010		.0751
.020		.0917
.040		.0944
.041	-.4277	
.113	-.1288	
.163		.0349
.246		-.2299
.247	-.0053	
.390		-.4565
.429	.0262	
.547	-.2216	
.637		-.1447
.638	-.4606	
.727	-.1852	
.793	.0341	
.798		-.3659

ALPHAO(5) =   2.179   BETAO (4) =   6.141

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3678	.1277
.010		.1141
.020		.1270
.040		.1262
.041	-.2911	
.113	-.1404	
.163		.0320
.246		-.2477
.247	.0066	
.390		-.4885
.429	.0356	
.547	-.2312	
.637		-.0862
.638	-.4900	
.727	-.1534	
.793	.1156	
.798		-.2878

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(6) =   4.252   BETAO (1) =   -6.110

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4746	-.0835
.010		-.0508
.020		-.0458
.040		-.0432
.041	-.5427	
.113	-.1984	
.163		-.0599
.246		-.2157
.247	-.0286	
.390		-.3967
.429	-.0184	
.547	-.2238	
.637		-.2645
.638	-.3894	
.727	-.2287	
.793	-.0934	
.798		-.5168

ALPHAO(6) =   4.257   BETAO (2) =   -4.071

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4389	-.1217
.010		-.0304
.020		-.0134
.040		-.0070
.041	-.5191	
.113	-.1451	
.163		-.0403
.246		-.2296
.247	-.0255	
.390		-.4412
.429	-.0104	
.547	-.2341	
.637		-.2390
.638	-.4620	
.727	-.2307	
.793	-.0433	
.798		-.4725

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(6) =   4.252   BETAO (3) =   .005

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3980	-.0354
.010		.0100
.020		.0364
.040		.0455
.041	-.4593	
.113	-.1400	
.163		-.0131
.246		-.2682
.247	-.0203	
.390		-.5001
.429	.0066	
.547	-.2589	
.637		-.1785
.638	-.5055	
.727	-.2280	
.793	.0391	
.798		-.3751

ALPHAO(6) =   4.251   BETAO (4) =   4.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3854	.0497
.010		.0516
.020		.0721
.040		.0752
.041	-.3480	
.113	-.1556	
.163		-.0193
.246		-.2854
.247	-.0133	
.390		-.5363
.429	.0142	
.547	-.2740	
.637		-.1495
.638	-.5438	
.727	-.2156	
.793	.0972	
.798		-.3226

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(6) =   4.247   BETAO (5) =   6.153

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.3495	.0792
.010		.0734
.020		.0913
.040		.0906
.041	-.2716	
.113	-.1478	
.163		-.0213
.246		-.2916
.247	.0015	
.390		-.5474
.429	.0275	
.547	-.2708	
.637		-.1146
.638	-.5443	
.727	-.1732	
.793	.1302	
.798		-.2985

ALPHAO(7) =   6.350   BETAO (1) =   -4.053

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4238	-.1858
.010		-.0734
.020		-.0537
.040		-.0430
.041	-.5005	
.113	-.1581	
.163		-.0814
.246		-.2712
.247	-.0533	
.390		-.4891
.429	-.0225	
.547	-.2716	
.637		-.2644
.638	-.5138	
.727	-.2697	
.793	-.0639	
.798		-.4581

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR17)

ALPHAO(7) =   6.348   BETAO (2) =   -2.025

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3957	-.2028
.010		-.0773
.020		-.0307
.040		-.0261
.041	-.4699	
.113	-.1534	
.163		-.0697
.246		-.3002
.247	-.0477	
.390		-.5307
.429	-.0133	
.547	-.2863	
.637		-.2270
.638	-.5392	
.727	-.2714	
.793	.0087	
.798		-.3989

ALPHAO(7) =   6.344   BETAO (3) =   .018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3726	-.1321
.010		-.0491
.020		-.0172
.040		-.0047
.041	-.4345	
.113	-.1486	
.163		-.0631
.246		-.3115
.247	-.0449	
.390		-.5501
.429	-.0100	
.547	-.2966	
.637		-.1970
.638	-.5620	
.727	-.2383	
.793	.0643	
.798		-.3745

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR17)

ALPHAO(7) =   6.340   BETAO (4) =   2.076

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3435	-.0712
.010		-.0259
.020		.0071
.040		.0140
.041	-.3705	
.113	-.1503	
.163		-.0701
.246		-.3222
.247	-.0358	
.390		-.5754
.429	-.0035	
.547	-.2982	
.637		-.1712
.638	-.5758	
.727	-.2107	
.793	.0934	
.798		-.3559

ALPHAO(7) =   6.335   BETAO (5) =   4.123

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3255	-.0277
.010		-.0101
.020		.0193
.040		.0266
.041	-.3175	
.113	-.1493	
.163		-.0773
.246		-.3324
.247	-.0276	
.390		-.5935
.429	.0021	
.547	-.3034	
.637		-.1518
.638	-.5825	
.727	-.2281	
.793	.1170	
.798		-.3468

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR18)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   10.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.223   BETAO (1) =   .032

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2219	-.0275
.010		.0121
.020		.0431
.040		.0582
.041	-.3228	
.113	-.3151	
.163		.2754
.246		.0747
.247	-.1008	
.390		-.0554
.429	.0035	
.547	.0549	
.637		.1658
.638	-.0244	
.727	.1809	
.793	.2797	
.798		-.0929

ALPHAO(2) =   -4.129   BETAO (1) =   -4.089

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2981	-.0185
.010		.0164
.020		.0363
.040		.0463
.041	-.4191	
.113	-.3744	
.163		.1898
.246		.0615
.247	-.1193	
.390		-.0521
.429	.0218	
.547	.0450	
.637		.1166

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR18)

ALPHAO(2) =   -4.129   BETAO (1) =   -4.089

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

   X/CW
     .638   -.0306
     .727   .1260
     .793   .2268
     .798   -.1264

ALPHAO(2) =   -4.111   BETAO (2) =   .021

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

   X/CW
     .000   -.2209   -.0202
     .010   .0047
     .020   .0340
     .040   .0431
     .041   -.3314
     .113   -.3044
     .163   .2361
     .246   .0209
     .247   -.1226
     .390   -.1297
     .429   -.0111
     .547   .0155
     .637   .1374
     .638   -.1249
     .727   .1428
     .793   .2482
     .798   -.1046

ALPHAO(2) =   -4.085   BETAO (3) =   4.129

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

   X/CW
     .000   -.1258   .0345
     .010   .0584
     .020   .0719
     .040   .0769
     .041   -.2249
     .113   -.2464
     .163   .2555
     .246   .0166

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR18)

ALPHAO(2) =   -4.085   BETAO (3) =   4.129

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.1326	
.390		-.1578
.429	-.0234	
.547	.0129	
.637		.1399
.638	-.1632	
.727	.0911	
.793	.2646	
.798		-.0609

ALPHAO(3) =   .045   BETAO (1) =   -6.157

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3161	-.0497
.010		-.0177
.020		-.0127
.040		-.0090
.041	-.4288	
.113	-.4288	
.163		.1226
.246		.0061
.247	-.1813	
.390		-.1322
.429	.0636	
.547	.0003	
.637		.0368
.638	-.1335	
.727	.0374	
.793	.1549	
.798		-.1770

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR18)

ALPHAO(3) =   .049   BETAO (2) =   -4.107

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2722	-.1091
.010		-.0195
.020		.0074
.040		.0222
.041	-.3927	
.113	-.3594	
.163		.1362
.246		.0010
.247	-.1703	
.390		-.1464
.429	.0424	
.547	.0027	
.637		.0444
.638	-.1484	
.727	.0343	
.793	.1736	
.798		-.1536

ALPHAO(3) =   .052   BETAO (3) =   -.012

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1747	-.0626
.010		-.0362
.020		-.0025
.040		.0165
.041	-.3129	
.113	-.2524	
.163		.1769
.246		-.0508
.247	-.1815	
.390		-.2230
.429	.0060	
.547	-.0359	
.637		.0381
.638	-.2241	
.727	-.0400	
.793	.1945	
.798		-.1206

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR18)

ALPHAO(3) =   .069   BETAO (4) =   4.104

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0974	.0145
.010		.0006
.020		.0141
.040		.0162
.041	-.2215	
.113	-.1606	
.163		.1750
.246		-.0548
.247	-.1904	
.390		-.2481
.429	-.0537	
.547	-.0378	
.637		-.0257
.638	-.2353	
.727	-.1640	
.793	.1913	
.798		-.0832

ALPHAO(3) =   .076   BETAO (5) =   6.152

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0708	.0439
.010		.0294
.020		.0409
.040		.0436
.041	-.1924	
.113	-.1265	
.163		.1806
.246		-.0621
.247	-.1937	
.390		-.2754
.429	-.0337	
.547	-.0502	
.637		-.0378
.638	-.2268	
.727	-.2251	
.793	.1995	
.798		-.0627

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR18)

ALPHAO(4) =   4.250   BETAO (1) =   -4.085

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2136	-.2167
.010		-.1304
.020		-.1035
.040		-.0984
.041	-.3204	
.113	-.3373	
.163		.0343
.246		-.0971
.247	-.2642	
.390		-.2362
.429	.0292	
.547	-.0678	
.637		-.0688
.638	-.2339	
.727	-.1432	
.793	.1478	
.798		-.1794

ALPHAO(4) =   4.253   BETAO (2) =   .000

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1507	-.2361
.010		-.1368
.020		-.0825
.040		-.0666
.041	-.2733	
.113	-.2422	
.163		.0925
.246		-.1193
.247	-.2435	
.390		-.3141
.429	.0070	
.547	-.0869	
.637		-.1453
.638	-.3037	
.727	-.3337	
.793	.1637	
.798		-.1487

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR18)

ALPHAO(4) =   4.255   BETAO (3) =   4.115

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0715	-.1296
.010		-.1290
.020		-.0941
.040		-.0752
.041	-.2053	
.113	-.1215	
.163		.0718
.246		-.1317
.247	-.1614	
.390		-.3371
.429	-.0658	
.547	-.0762	
.637		-.2107
.638	-.3084	
.727	-.3726	
.793	.1211	
.798		-.1190

ALPHAO(5) =   6.356   BETAO (1) =   .011

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1437	-.4398
.010		-.2294
.020		-.1407
.040		-.1137
.041	-.2631	
.113	-.2320	
.163		.0532
.246		-.1484
.247	-.2401	
.390		-.3491
.429	.0198	
.547	-.1080	
.637		-.2671
.638	-.3369	
.727	-.4003	
.793	.1237	
.798		-.1893

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR19)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.250   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   10.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -4.169   BETAO (1) =   -4.086

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1835   -.1072
  .010   -.0850
  .020   -.0634
  .040   -.0548
  .041   -.2871
  .113   -.3112
  .163   .0954
  .246   .0030
  .247   -.1755
  .390   -.1063
  .429   -.0891
  .547   -.0291
  .637   .0894
  .638   -.1250
  .727   .0303
  .793   .2123
  .798   -.0432

ALPHAO(1) =   -4.149   BETAO (2) =   .018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.1059   -.1433
  .010   -.0989
  .020   -.0646
  .040   -.0491
  .041   -.1855
  .113   -.2394
  .163   .0927
  .246   -.0015
  .247   -.1680
  .390   -.1090
  .429   -.1100
  .547   -.0348
  .637   .0502

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR19)

ALPHAO(1) =   -4.149   BETAO (2) =   .018

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .638   -.1265
   .727   -.0063
   .793   .2060
   .798   -.0350

ALPHAO(1) =   -4.104   BETAO (3) =   4.148

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.0769   -.1520
   .010   -.0782
   .020   -.0524
   .040   -.0388
   .041   -.0982
   .113   -.1691
   .163   .1259
   .246   -.0063
   .247   -.1256
   .390   -.1402
   .429   -.0849
   .547   -.0391
   .637   -.0928
   .638   -.1453
   .727   -.2003
   .793   .1822
   .798   .0022

ALPHAO(2) =   .052   BETAO (1) =   -4.119

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1859   -.1365
   .010   -.0845
   .020   -.0626
   .040   -.0544
   .041   -.2934
   .113   -.3327
   .163   .0515
   .246   -.0430

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR19)

ALPHAO(2) =   .052   BETAO (1) =   -4.119

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.2220	
.390		-.1701
.429	-.0781	
.547	-.0480	
.637		-.0442
.638	-.1742	
.727	-.1571	
.793	.1456	
.798		-.0911

ALPHAO(2) =   .055   BETAO (2) =   -.007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1819	-.0672
.010		-.0583
.020		-.0389
.040		-.0300
.041	-.1937	
.113	-.2763	
.163		.0567
.246		-.0672
.247	-.2277	
.390		-.1908
.429	-.1101	
.547	-.0555	
.637		-.1600
.638	-.1902	
.727	-.2362	
.793	.1202	
.798		-.0775

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR19)

ALPHAO(2) =   .067   BETAO (3) =   4.107

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1136	-.1142
.010		-.0668
.020		.0019
.040		.0162
.041	-.1183	
.113	-.1949	
.163		.0705
.246		-.0700
.247	-.1571	
.390		-.2255
.429	-.1091	
.547	-.0675	
.637		-.3390
.638	-.2042	
.727	-.2693	
.793	-.0004	
.798		-.0588

ALPHAO(3) =   4.242   BETAO (1) =   -4.090

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1855	-.2740
.010		-.1756
.020		-.1375
.040		-.1223
.041	-.2962	
.113	-.2965	
.163		-.0135
.246		-.1042
.247	-.2223	
.390		-.2385
.429	-.0836	
.547	-.0773	
.637		-.2673
.638	-.2369	
.727	-.2718	
.793	.0713	
.798		-.1059

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR19)

ALPHAO(3) =   4.243   BETAO (2) =   .004

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2298	-.2371
.010		-.1637
.020		-.1278
.040		-.1100
.041	-.2212	
.113	-.2489	
.163		-.0092
.246		-.1361
.247	-.1764	
.390		-.2778
.429	-.1132	
.547	-.0884	
.637		-.3674
.638	-.2575	
.727	-.3086	
.793	-.0007	
.798		-.1479

ALPHAO(3) =   4.242   BETAO (3) =   4.125

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1548	-.0517
.010		-.0799
.020		-.0542
.040		-.0405
.041	-.1837	
.113	-.2110	
.163		-.0152
.246		-.1297
.247	-.1250	
.390		-.3036
.429	-.1021	
.547	-.0910	
.637		-.4144
.638	-.2751	
.727	-.3331	
.793	-.1481	
.798		-.1704

ARCII-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR20)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	976.0000 IN. XT
LREF	=	1297.0000 INCHES	YMRP	=	.0000 IN. YT
BREF	=	1297.0000 INCHES	ZMRP	=	400.0000 IN. ZT
SCALE	=	.0300 SCALE			

MACH	=	1.400	RN/FT	=	2.250
ELV-IB	=	.000	ELV-OB	=	.000
RUDDER	=	.000	SPDBRK	=	.000

ALPHAO(1) =   .017   BETAO (1) =   -6.173

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW		.2350	.3640

X/CW

X/CW		
.000	-.2001	-.2039
.010		-.1992
.020		-.1766
.040		-.1431
.041	-.2823	
.113	-.3323	
.163		.0189
.246		-.0590
.247	-.2541	
.390		-.1567
.429	-.0946	
.547	-.0645	
.637		-.1080
.638	-.1753	
.727	-.1651	
.793	.1169	
.798		-.0302

ALPHAO(1) =   .018   BETAO (2) =   -4.117

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW		.2350	.3640

X/CW

X/CW		
.000	-.1959	-.1573
.010		-.1065
.020		-.0898
.040		-.0814
.041	-.2445	
.113	-.2935	
.163		.0248
.246		-.0569
.247	-.2210	
.390		-.1628
.429	-.0854	
.547	-.0671	
.637		-.1768

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR20)

ALPHAO(1) =   .018   BETAO (2) =   -4.117

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
      .638   -.1721
      .727   -.1836
      .793   .1118
      .798   -.0165

ALPHAO(1) =   .024   BETAO (3) =   -2.072

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
      .000   -.2110   -.0996
      .010   -.0656
      .020   -.0412
      .040   -.0325
      .041   -.1970
      .113   -.2422
      .163   .0228
      .246   -.0650
      .247   -.1974
      .390   -.1847
      .429   -.0712
      .547   -.0835
      .637   -.2357
      .638   -.1772
      .727   -.1955
      .793   .0967
      .798   -.0097

ALPHAO(1) =   .023   BETAO (4) =   -.006

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
      .000   -.2295   -.0816
      .010   -.0621
      .020   -.0296
      .040   -.0176
      .041   -.1784
      .113   -.2112
      .163   .0369
      .246   -.0646

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR20)

ALPHAO(1) =   .023   BETAO (4) =   -.006

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .247   -.1648
   .390   -.1917
   .429   -.0853
   .547   -.0757
   .637   -.2697
   .638   -.1825
   .727   -.2060
   .793   .0610
   .798   -.0221

ALPHAO(1) =   .030   BETAO (5) =   2.059

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1916   -.1068
   .010   -.0836
   .020   -.0434
   .040   -.0214
   .041   -.1220
   .113   -.1795
   .163   .0562
   .246   -.0684
   .247   -.1334
   .390   -.1987
   .429   -.0765
   .547   -.0679
   .637   -.2859
   .638   -.1913
   .727   -.2123
   .793   -.0570
   .798   -.0318

ALPHAO(1) =   .032   BETAO (6) =   4.116

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1113	-.0702
.010		-.0624
.020		-.0380
.040		-.0241
.041	-.0736	
.113	-.1454	
.163		.0712
.246		-.0581
.247	-.1027	
.390		-.1915
.429	-.0671	
.547	-.0528	
.637		-.2952
.638	-.1785	
.727	-.2159	
.793	-.1534	
.798		-.0496

ALPHAO(1) =   .044   BETAO (7) =   6.175

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0309	-.0290
.010		-.0315
.020		-.0160
.040		-.0080
.041	-.0132	
.113	-.1011	
.163		.0852
.246		-.0510
.247	-.0634	
.390		-.1834
.429	-.0482	
.547	-.0346	
.637		-.2883
.638	-.1633	
.727	-.2094	
.793	-.1983	
.798		-.0659

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP

(RETR21)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	= 2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT		
LREF	= 1297.0000 INCHES	YMRP =	.0000 IN. YT		
BREF	= 1297.0000 INCHES	ZMRP =	400.0000 IN. ZT		
SCALE	= .0300 SCALE				

MACH =	1.250	RN/FT =	2.250
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	.000

ALPHAO(1) =   .038   BETAO (1) =   -6.160

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.2176	-.1319
.010		-.1037
.020		-.0962
.040		-.0933
.041	-.3387	
.113	-.3529	
.163		.0566
.246		-.0386
.247	-.2299	
.390		-.1414
.429	-.0506	
.547	-.0513	
.637		.0218
.638	-.1556	
.727	-.0329	
.793	.1669	
.798		-.0226

ALPHAO(1) =   .045   BETAO (2) =   -4.114

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1945	-.1348
.010		-.0862
.020		-.0643
.040		-.0554
.041	-.3008	
.113	-.3411	
.163		.0519
.246		-.0449
.247	-.2367	
.390		-.1757
.429	-.0837	
.547	-.0519	
.637		-.0491

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR21)

ALPHAO(1) =   .045   BETAO (2) =   -4.114

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1818	
.727	-.1599	
.793	.1439	
.798		-.0239

ALPHAO(1) =   .047   BETAO (3) =   -2.070

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1881	-.1049
.010		-.0761
.020		-.0555
.040		-.0425
.041	-.2562	
.113	-.3094	
.163		.0551
.246		-.0495
.247	-.2375	
.390		-.1736
.429	-.0995	
.547	-.0409	
.637		-.0992
.638	-.1812	
.727	-.2218	
.793	.1400	
.798		-.0063

ALPHAO(1) =   .054   BETAO (4) =   -.008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1817	-.0718
.010		-.0645
.020		-.0426
.040		-.0341
.041	-.1982	
.113	-.2787	
.163		.0521
.246		-.0561

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR21)

ALPHAO(1) =   .054   BETAO (4) =   -.008

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.247   -.2302
.390   -.1906
.429   -.1130
.547   -.0559
.637   -.1631
.638   -.1931
.727   -.2350
.793   .1219
.798   -.0077

ALPHAO(1) =   .082   BETAO (5) =   2.056

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000   -.1718   -.0432
.010   -.0369
.020   -.0049
.040   .0020
.041   -.1604
.113   -.2341
.163   .0435
.246   -.0730
.247   -.1974
.390   -.2158
.429   -.1163
.547   -.0768
.637   -.2680
.638   -.1983
.727   -.2518
.793   .0720
.798   .0140

ALPHAO(1) =   .087   BETAO (6) =   4.111

SECTION. (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1231	-.1146
.010		-.0686
.020		-.0018
.040		.0128
.041	-.1190	
.113	-.1938	
.163		.0711
.246		-.0705
.247	-.1608	
.390		-.2302
.429	-.1063	
.547	-.0673	
.637		-.3401
.638	-.2166	
.727	-.2692	
.793	-.0081	
.798		.0185

ALPHAO(1) =   .091   BETAO (7) =   6.170

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0734	-.0899
.010		-.0614
.020		-.0016
.040		.0386
.041	-.0699	
.113	-.1424	
.163		.0959
.246		-.0579
.247	-.1184	
.390		-.2282
.429	-.0801	
.547	-.0506	
.637		-.3605
.638	-.2048	
.727	-.2763	
.793	-.0696	
.798		-.0106

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   .039   BETAO (1) =   -6.151

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3211	-.0628
.010		-.0294
.020		-.0170
.040		-.0116
.041	-.4334	
.113	-.4320	
.163		.1058
.246		.0026
.247	-.1842	
.390		-.1377
.429	.0575	
.547	-.0038	
.637		.0353
.638	-.1356	
.727	.0366	
.793	.1536	
.798		-.0835

ALPHAO(1) =   .042   BETAO (2) =   -4.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2751	-.1045
.010		-.0175
.020		.0077
.040		.0248
.041	-.3953	
.113	-.3611	
.163		.1364
.246		-.0088
.247	-.1700	
.390		-.1432
.429	.0378	
.547	-.0075	
.637		.0487

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR22)

ALPHAO(1) =   .042   BETAO (2) =   -4.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1485	
.727	.0363	
.793	.1750	
.798		-.0562

ALPHAO(1) =   .047   BETAO (3) =   -2.062

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2333	-.0759
.010		-.0163
.020		.0180
.040		.0341
.041	-.3500	
.113	-.3053	
.163		.1639
.246		-.0335
.247	-.1751	
.390		-.1912
.429	.0358	
.547	-.0197	
.637		.0576
.638	-.1919	
.727	.0223	
.793	.1875	
.798		-.0417

ALPHAO(1) =   .053   BETAO (4) =   -.007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1689	-.0586
.010		-.0307
.020		.0046
.040		.0248
.041	-.3061	
.113	-.2462	
.163		.1841
.246		-.0405

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ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR22)

ALPHAO(1) =   .053   BETAO (4) =   -.007

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .247   -.1712
   .390   -.2096
   .429   .0154
   .547   -.0226
   .637   .0244
   .638   -.2136
   .727   -.0593
   .793   .1841
   .798   -.0211

ALPHAO(1) =   .079   BETAO (5) =   2.058

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.1183   -.0295
   .010   -.0295
   .020   -.0084
   .040   .0041
   .041   -.2568
   .113   -.1781
   .163   .1886
   .246   -.0403
   .247   -.1667
   .390   -.2195
   .429   -.0299
   .547   -.0208
   .637   -.0037
   .638   -.2168
   .727   -.1240
   .793   .1869
   .798   -.0026

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR22)

ALPHAO(1) =   .083   BETAO (6) =   4.107

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0940	.0137
.010		.0009
.020		.0127
.040		.0167
.041	-.2196	
.113	-.1580	
.163		.1762
.246		-.0526
.247	-.1893	
.390		-.2424
.429	-.0532	
.547	-.0334	
.637		-.0264
.638	-.2334	
.727	-.1573	
.793	.1954	
.798		.0288

ALPHAO(1) =   .090   BETAO (7) =   6.163

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.0723	.0396
.010		.0218
.020		.0359
.040		.0373
.041	-.1941	
.113	-.1273	
.163		.1746
.246		-.0696
.247	-.1961	
.390		-.2680
.429	-.0383	
.547	-.0531	
.637		-.0507
.638	-.2255	
.727	-.2363	
.793	.1904	
.798		.0550

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR23)   (17 OCT 75)

REFERENCE DATA								PARAMETRIC DATA			

SREF = 2690.0000 SQ.FT.   XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP = 400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   1.400   RN/FT =   2.250
ELV-IB =   .000   ELV-OB =   .000
RUDDER =   .000   SPDBRK =   .000

BETAO (1) =   .033   ALPHAO(1) =   -6.272

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1832	-.0969
.010		-.0450
.020		-.0215
.040		-.0085
.041	-.1084	
.113	-.1483	
.163		.1167
.246		.0289
.247	-.0945	
.390		-.0706
.429	-.0379	
.547	-.0166	
.637		.0017
.638	-.1143	
.727	-.0731	
.793	.2126	
.798		.0526

BETAO (1) =   .011   ALPHAO(2) =   -4.160

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1864	-.0858
.010		-.0487
.020		-.0259
.040		-.0114
.041	-.1624	
.113	-.1620	
.163		.0896
.246		-.0058
.247	-.1346	
.390		-.1160
.429	-.0524	
.547	-.0425	
.637		-.1040

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR23)

BETAO (1) =   .011   ALPHAO(2) =   -4.160

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .638   -.1367
    .727   -.1509
    .793   .1792
    .798   .0201

BETAO (1) =   -.007   ALPHAO(3) =   -2.069

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .000   -.2343   -.0867
    .010   -.0598
    .020   -.0286
    .040   -.0132
    .041   -.1846
    .113   -.1753
    .163   .0634
    .246   -.0444
    .247   -.1537
    .390   -.1598
    .429   -.0697
    .547   -.0647
    .637   -.2003
    .638   -.1617
    .727   -.1805
    .793   .1378
    .798   .0030

BETAO (1) =   -.022   ALPHAO(4) =   .024

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

    X/CW
    .000   -.2377   -.0847
    .010   -.0652
    .020   -.0333
    .040   -.0203
    .041   -.1802
    .113   -.2139
    .163   .0344
    .246   -.0692

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                    ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR23)

BETAO (1) =   -.022   ALPHAO(4) =   .024

  SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .247   -.1691
   .390   -.1951
   .429   -.0899
   .547   -.0779
   .637   -.2739
   .638   -.1864
   .727   -.2102
   .793   .0551
   .798   -.0289

BETAO (1) =   -.018   ALPHAO(5) =   2.134

  SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.1906 -.1260
   .010   -.1009
   .020   -.0619
   .040   -.0483
   .041   -.1835
   .113   -.2590
   .163   .0049
   .246   -.0898
   .247   -.1742
   .390   -.2241
   .429   -.0916
   .547   -.0801
   .637   -.3129
   .638   -.2101
   .727   -.2368
   .793   -.0663
   .798   -.0646

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR23)

BETAO (1) =   -.008   ALPHAO(6) =   4.218

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000	-.1749	-.1842
.010		-.1715
.020		-.1359
.040		-.1146
.041	-.2006	
.113	-.2776	
.163		-.0242
.246		-.1118
.247	-.1632	
.390		-.2507
.429	-.0892	
.547	-.0836	
.637		-.3380
.638	-.2349	
.727	-.2600	
.793	-.1514	
.798		-.1192

BETAO (1) =   -.002   ALPHAO(7) =   5.273

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
.000	-.1725	-.2130
.010		-.1923
.020		-.1574
.040		-.1407
.041	-.2025	
.113	-.2628	
.163		-.0394
.246		-.1277
.247	-.1518	
.390		-.2640
.429	-.0937	
.547	-.0863	
.637		-.3499
.638	-.2439	
.727	-.2705	
.793	-.1815	
.798		-.1447

ARC11-019 IA91 LVAP(ELHL SEALED) RT. WING TOP   (RETR24)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT	
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT	
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT	
SCALE = .0300 SCALE		

MACH =	1.250	RN/FT =	2.250
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	.000

BETAO (1) =   .028   ALPHAO(1) =   -6.248

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1037	-.1733
.010		-.1011
.020		-.0609
.040		-.0439
.041	-.1869	
.113	-.2220	
.163		.1188
.246		.0277
.247	-.1214	
.390		-.0711
.429	-.0878	
.547	-.0196	
.637		.1147
.638	-.0989	
.727	.0764	
.793	.2502	
.798		.0654

BETAO (1) =   .001   ALPHAO(2) =   -4.131

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.1062	-.1424
.010		-.0976
.020		-.0643
.040		-.0497
.041	-.1903	
.113	-.2401	
.163		.0912
.246		-.0050
.247	-.1722	
.390		-.1075
.429	-.1141	
.547	-.0351	
.637		.0560

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR24)

BETAO (1) =   .001   ALPHAO(2) =   -4.131

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .638   -.1262
    .727   -.0072
    .793   .2026
    .798   .0424

BETAO (1) =   -.012   ALPHAO(3) =   -2.038

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1479   -.0747
    .010   -.0677
    .020   -.0423
    .040   -.0338
    .041   -.1809
    .113   -.2655
    .163   .0734
    .246   -.0319
    .247   -.2126
    .390   -.1438
    .429   -.1222
    .547   -.0408
    .637   -.0255
    .638   -.1587
    .727   -.1282
    .793   .1761
    .798   .0088

BETAO (1) =   -.024   ALPHAO(4) =   .059

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.1685   -.0690
    .010   -.0583
    .020   -.0409
    .040   -.0304
    .041   -.1919
    .113   -.2749
    .163   .0583
    .246   -.0659

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR24)

BETAO (1) =   -.024   ALPHAO(4) =   .059

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .247   -.2274
   .390   -.1856
   .429   -.1115
   .547   -.0519
   .637   -.1464
   .638   -.1859
   .727   -.2303
   .793   .1267
   .798   -.0058

BETAO (1) =   -.019   ALPHAO(5) =   2.162

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
   .000   -.2399   -.1385
   .010   -.0976
   .020   -.0691
   .040   -.0583
   .041   -.2139
   .113   -.2710
   .163   .0292
   .246   -.0989
   .247   -.1962
   .390   -.2339
   .429   -.1046
   .547   -.0716
   .637   -.3005
   .638   -.2241
   .727   -.2716
   .793   .0529
   .798   -.0241

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR24)

BETAO (1) =   -.013   ALPHAO(6) =   4.248

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2277	-.2518
.010		-.1783
.020		-.1279
.040		-.1115
.041	-.2201	
.113	-.2521	
.163		-.0095
.246		-.1311
.247	-.1751	
.390		-.2730
.429	-.1093	
.547	-.0833	
.637		-.3636
.638	-.2518	
.727	-.3031	
.793	.0209	
.798		-.0779

BETAO (1) =   .001   ALPHAO(7) =   6.352

SECTION (1)RIGHT WING TOP .   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1598	-.3461
.010		-.2947
.020		-.2312
.040		-.2042
.041	-.2033	
.113	-.2271	
.163		-.0611
.246		-.1680
.247	-.1687	
.390		-.3137
.429	-.1255	
.547	-.1052	
.637		-.4213
.638	-.2868	
.727	-.3318	
.793	-.0313	
.798		-.1336

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR25)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

BETAO (1) =   .018   ALPHAO(1) =   -6.220

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

 X/CW
  .000   -.2276   -.0360
  .010   .0021
  .020   .0318
  .040   .0457
  .041   -.3278
  .113   -.3207
  .163   .2660
  .246   .0649
  .247   -.1078
  .390   -.0350
  .429   -.0080
  .547   .0484
  .637   .1637
  .638   -.0043
  .727   .1820
  .793   .2805
  .798   -.0035

BETAO (1) =   .000   ALPHAO(2) =   -4.109

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

 X/CW
  .000   -.2187   -.0130
  .010   .0133
  .020   .0409
  .040   .0510
  .041   -.3305
  .113   -.3046
  .163   .2408
  .246   .0288
  .247   -.1173
  .390   -.1230
  .429   .0009
  .547   .0208
  .637   .1314

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR25)

BETAO (1) =   .000   ALPHAO(2) =   -4.109

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.638	-.1274	
.727	.1277	
.793	.2435	
.798		-.0063

BETAO (1) =   -.015   ALPHAO(3) =   -2.020

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.2123	-.0265
.010		-.0099
.020		.0178
.040		.0323
.041	-.3267	
.113	-.2818	
.163		.2111
.246		-.0180
.247	-.1469	
.390		-.1776
.429	.0018	
.547	-.0103	
.637		.0967
.638	-.1820	
.727	.0663	
.793	.2124	
.798		-.0133

BETAO (1) =   -.024   ALPHAO(4) =   .066

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1751	-.0608
.010		-.0372
.020		.0023
.040		.0151
.041	-.3117	
.113	-.2527	
.163		.1774
.246		-.0517

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR25)

BETAO (1) =   -.024   ALPHAO(4) =   .066

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.247	-.1798	
.390		-.2210
.429	.0077	
.547	-.0351	
.637		.0252
.638	-.2250	
.727	-.0449	
.793	.1855	
.798		-.0236

BETAO (1) =   -.019   ALPHAO(5) =   2.167

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1636	-.1329
.010		-.0805
.020		-.0349
.040		-.0211
.041	-.2905	
.113	-.2426	
.163		.1329
.246		-.0880
.247	-.2193	
.390		-.2690
.429	.0025	
.547	-.0607	
.637		-.0680
.638	-.2608	
.727	-.2028	
.793	.1704	
.798		-.0383

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR25)

BETAO (1) =   -.015   ALPHAO(6) =   4.256

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1465	-.2310
.010		-.1311
.020		-.0809
.040		-.0591
.041	-.2687	
.113	-.2384	
.163		.0974
.246		-.1136
.247	-.2371	
.390		-.3067
.429	.0099	
.547	-.0829	
.637		-.1499
.638	-.2993	
.727	-.3397	
.793	.1617	
.798		-.0698

BETAO (1) =   .000   ALPHAO(7) =   6.355

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.1515	-.4452
.010		-.2327
.020		-.1487
.040		-.1200
.041	-.2731	
.113	-.2448	
.163		.0477
.246		-.1554
.247	-.2495	
.390		-.3555
.429	.0046	
.547	-.1184	
.637		-.2691
.638	-.3495	
.727	-.4014	
.793	.1263	
.798		-.1019

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ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP = 400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH	=	.900	RN/FT =	2.250
ELV-IB	=	.000	ELV-OB =	.000
RUDDER	=	.000	SPDBRK =	.000

ALPHAO(1) =   -6.182   BETAO (1) = -4.055

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5260	.0776
.010		.1040
.020		.1252
.040		.1342
.041	-.2317	
.113	-.1976	
.163		.2119
.246		.0335
.247	.0581	
.390		-.1034
.429	.0933	
.547	-.0014	
.637		-.1083
.638	-.0999	
.727	-.0517	
.793	.0150	
.798		-.2258

ALPHAO(1) =   -6.173   BETAO (2) = -2.019

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5237	.0855
.010		.1239
.020		.1453
.040		.1555
.041	-.2437	
.113	-.1316	
.163		.2259
.246		.0358
.247	.0686	
.390		-.1143
.429	.1017	
.547	.0024	
.637		-.0804

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR26)

ALPHAO(1) =   -6.173   BETAO (2) =   -2.019

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .638   -.1000
    .727   -.0323
    .793   .0505
    .798   -.1564

ALPHAO(1) =   -6.160   BETAO (3) =   .037

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.5305   .0711
    .010   .1265
    .020   .1521
    .040   .1620
    .041   -.3896
    .113   -.0263
    .163   .2270
    .246   .0176
    .247   .0539
    .390   -.1398
    .429   .0990
    .547   -.0110
    .637   -.0676
    .638   -.1252
    .727   -.0267
    .793   .0772
    .798   -.0889

ALPHAO(1) =   -6.132   BETAO (4) =   2.107

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
    .000   -.5018   .0831
    .010   .1516
    .020   .1758
    .040   .1856
    .041   -.4915
    .113   -.0176
    .163   .2409
    .246   .0233

                              ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(1) = -6.132   BETAO (4) =   2.107

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .247   .0638
   .390   -.1437
   .429   .1107
   .547   -.0074
   .637   -.0313
   .638   -.1255
   .727   -.0014
   .793   .1171
   .798   -.0447

ALPHAO(1) = -6.123   BETAO (5) =   4.151

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.4738   .0787
   .010   .1637
   .020   .1904
   .040   .2018
   .041   -.2930
   .113   -.0131
   .163   .2438
   .246   .0109
   .247   .0649
   .390   -.1626
   .429   .1167
   .547   -.0112
   .637   -.0051
   .638   -.1232
   .727   .0177
   .793   .1481
   .798   -.0086

ARC11-019 1A81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(2) =   -4.098   BETAO (1) =   -6.117

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5064	.0571
.010		.0722
.020		.0874
.040		.0930
.041	-.2742	
.113	-.2523	
.163		.1531
.246		-.0056
.247	.0381	
.390		-.1402
.429	.0755	
.547	-.0295	
.637		-.1474
.638	-.1276	
.727	-.0918	
.793	-.0261	
.798		-.2831

ALPHAO(2) =   -4.086   BETAO (2) =   -4.069

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5155	.0735
.010		.0952
.020		.1089
.040		.1172
.041	-.2431	
.113	-.1625	
.163		.1696
.246		-.0241
.247	.0327	
.390		-.1734
.429	.0644	
.547	-.0513	
.637		-.1335
.638	-.1606	
.727	-.0795	
.793	-.0009	
.798		-.2315

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ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(2) = -4.071   BETAO (3) =   .025

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.5229	.0986
.010		.1303
.020		.1490
.040		.1544
.041	-.5080	
.113	-.0548	
.163		.1845
.246		-.0422
.247	.0349	
.390		-.2129
.429	.0757	
.547	-.0629	
.637		-.0903
.638	-.1900	
.727	-.0587	
.793	.0597	
.798		-.0957

ALPHAO(2) = -4.050   BETAO (4) =   4.127

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4564	.1261
.010		.1645
.020		.1828
.040		.1908
.041	-.4062	
.113	-.0379	
.163		.1923
.246		-.0535
.247	.0488	
.390		-.2461
.429	.0906	
.547	-.0656	
.637		-.0254
.638	-.2002	
.727	-.0155	
.793	.1299	
.798		-.0107

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR26)

ALPHAO(2) =   -4.048   BETAO (5) =   6.181

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4070	.1398
.010		.1854
.020		.2025
.040		.2098
.041	-.3781	
.113	-.0385	
.163		.1968
.246		-.0614
.247	.0582	
.390		-.2577
.429	.1002	
.547	-.0601	
.637		.0112
.638	-.1981	
.727	.0044	
.793	.1611	
.798		.0325

ALPHAO(3) =   -2.011   BETAO (1) =   -6.126

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.5226	.0335
.010		.0483
.020		.0601
.040		.0631
.041	-.2830	
.113	-.2141	
.163		.1015
.246		-.0585
.247	.0168	
.390		-.2036
.429	.0434	
.547	-.0813	
.637		-.1736
.638	-.1898	
.727	-.1219	
.793	-.0410	
.798		-.2858

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(3) =   -1.998   BETAO (2) =   -2.045

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4852	.0852
.010		.1026
.020		.1158
.040		.1234
.041	-.5377	
.113	-.0818	
.163		.1397
.246		-.0880
.247	.0276	
.390		-.2631
.429	.0567	
.547	-.0962	
.637		-.1224
.638	-.2335	
.727	-.0906	
.793	.0183	
.798		-.2020

ALPHAO(3) =   -1.984   BETAO (3) =   2.071

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4856	.1261
.010		.1417
.020		.1558
.040		.1600
.041	-.5027	
.113	-.0754	
.163		.1444
.246		-.1134
.247	.0258	
.390		-.3141
.429	.0619	
.547	-.1172	
.637		-.0761
.638	-.2822	
.727	-.0670	
.793	.0832	
.798		-.0530

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(3) =   -1.975   BETAO (4) =   6.155

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.3947   .1692
   .010   .1798
   .020   .1908
   .040   .1934
   .041   -.3791
   .113   -.0683
   .163   .1480
   .246   -.1235
   .247   .0413
   .390   -.3427
   .429   .0797
   .547   -.1180
   .637   -.0027
   .638   -.3078
   .727   -.0163
   .793   .1616
   .798   .0365

ALPHAO(4) =   .071   BETAO (1) =   -6.134

 SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

  X/CW
   .000   -.5057   -.0145
   .010   .0064
   .020   .0189
   .040   .0220
   .041   -.3733
   .113   -.2193
   .163   .0371
   .246   -.1154
   .247   -.0057
   .390   -.2664
   .429   .0174
   .547   -.1321
   .637   -.1977
   .638   -.2542
   .727   -.1544
   .793   -.0566
   .798   -.3115

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR26)

ALPHAO(4) =   .076   BETAO (2) =   -4.088

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4805	-.0134
.010		.0324
.020		.0461
.040		.0514
.041	-.5506	
.113	-.1570	
.163		.0536
.246		-.1320
.247	.0010	
.390		-.3127
.429	.0218	
.547	-.1471	
.637		-.1714
.638	-.2934	
.727	-.1392	
.793	-.0248	
.798		-.2843

ALPHAO(4) =   .079   BETAO (3) =   .002

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4504	.0740
.010		.0892
.020		.1036
.040		.1104
.041	-.4990	
.113	-.0991	
.163		.0839
.246		-.1707
.247	.0012	
.390		-.3771
.429	.0297	
.547	-.1682	
.637		-.1290
.638	-.3623	
.727	-.1236	
.793	.0311	
.798		-.1149

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(4) =   .084   BETAO (4) =   4.101

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4149	.1308
.010		.1297
.020		.1433
.040		.1493
.041	-.3983	
.113	-.0996	
.163		.0886
.246		-.1837
.247	.0196	
.390		-.4066
.429	.0497	
.547	-.1701	
.637		-.0604
.638	-.3968	
.727	-.0838	
.793	.1093	
.798		-.0092

ALPHAO(4) =   .089   BETAO (5) =   6.149

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3777	.1593
.010		.1510
.020		.1589
.040		.1623
.041	-.3315	
.113	-.1091	
.163		.0881
.246		-.1906
.247	.0252	
.390		-.4189
.429	.0585	
.547	-.1700	
.637		-.0221
.638	-.4064	
.727	-.0630	
.793	.1548	
.798		.0418

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR26)

ALPHAO(5) =   2.166   BETAO (1) =   -6.124

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4963	-.0539
.010		-.0243
.020		-.0174
.040		-.0140
.041	-.4963	
.113	-.1975	
.163		-.0140
.246		-.1665
.247	-.0201	
.390		-.3311
.429	-.0072	
.547	-.1849	
.637		-.2296
.638	-.3235	
.727	-.1889	
.793	-.0699	
.798		-.2975

ALPHAO(5) =   2.174   BETAO (2) =   -2.053

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW	.2350	.3640
X/CW		
.000	-.4350	-.0324
.010		.0251
.020		.0436
.040		.0527
.041	-.5162	
.113	-.1245	
.163		.0293
.246		-.2086
.247	-.0105	
.390		-.4169
.429	.0099	
.547	-.2076	
.637		-.1685
.638	-.4210	
.727	-.1779	
.793	.0009	
.798		-.2036

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(5) =   2.176   BETAO (3) =   2.058

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4285	.0695
.010		.0763
.020		.0906
.040		.0967
.041	-.4307	
.113	-.1227	
.163		.0342
.246		-.2349
.247	-.0074	
.390		-.4593
.429	.0196	
.547	-.2240	
.637		-.1122
.638	-.4660	
.727	-.1508	
.793	.0793	
.798		-.0510

ALPHAO(5) =   2.176   BETAO (4) =   6.147

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3630	.1325
.010		.1144
.020		.1287
.040		.1287
.041	-.2822	
.113	-.1339	
.163		.0332
.246		-.2444
.247	.0095	
.390		-.4850
.429	.0387	
.547	-.2272	
.637		-.0412
.638	-.4825	
.727	-.0960	
.793	.1702	
.798		.0392

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR26)

ALPHAO(6) =   4.242   BETAO (1) =   -6.110

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4752   -.0813
  .010   -.0456
  .020   -.0407
  .040   -.0365
  .041   -.5563
  .113   -.2051
  .163   -.0557
  .246   -.2097
  .247   -.0278
  .390   -.3828
  .429   -.0184
  .547   -.2176
  .637   -.2503
  .638   -.3790
  .727   -.2134
  .793   -.0787
  .798   -.3020

ALPHAO(6) =   4.246   BETAO (2) =   -4.074

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.4422   -.1221
  .010   -.0339
  .020   -.0158
  .040   -.0090
  .041   -.5209
  .113   -.1448
  .163   -.0426
  .246   -.2299
  .247   -.0264
  .390   -.4377
  .429   -.0101
  .547   -.2318
  .637   -.2250
  .638   -.4464
  .727   -.2174
  .793   -.0309
  .798   -.2123

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(6) =   4.244   BETAO (3) =   .001

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4044	-.0422
.010		.0051
.020		.0305
.040		.0407
.041	-.4643	
.113	-.1476	
.163		-.0161
.246		-.2742
.247	-.0274	
.390		-.5035
.429	-.0017	
.547	-.2692	
.637		-.1444
.638	-.5101	
.727	-.1951	
.793	.0657	
.798		-.1047

ALPHAO(6) =   4.243   BETAO (4) =   4.105

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3827	.0484
.010		.0537
.020		.0744
.040		.0793
.041	-.3429	
.113	-.1458	
.163		-.0158
.246		-.2848
.247	-.0128	
.390		-.5322
.429	.0171	
.547	-.2698	
.637		-.0888
.638	-.5374	
.727	-.1726	
.793	.1398	
.798		-.0241

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(6) =   4.240   BETAO (5) =   6.155

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3486	.0819
.010		.0713
.020		.0872
.040		.0914
.041	-.2667	
.113	-.1476	
.163		-.0216
.246		-.2951
.247	.0000	
.390		-.5504
.429	.0277	
.547	-.2674	
.637		-.0698
.638	-.5356	
.727	-.1172	
.793	.1866	
.798		.0062

ALPHAO(7) =   6.337   BETAO (1) =   -4.058

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.4249	-.1919
.010		-.0747
.020		-.0530
.040		-.0458
.041	-.5072	
.113	-.1631	
.163		-.0857
.246		-.2758
.247	-.0568	
.390		-.4913
.429	-.0265	
.547	-.2735	
.637		-.2200
.638	-.5099	
.727	-.2333	
.793	-.0219	
.798		-.2026

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING TOP   (RETR26)

ALPHAO(7) =   6.337   BETAO (2) =   -2.026

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.3995   -.1959
  .010   -.0776
  .020   -.0401
  .040   -.0261
  .041   -.4749
  .113   -.1459
  .163   -.0704
  .246   -.3039
  .247   -.0488
  .390   -.5299
  .429   -.0140
  .547   -.2865
  .637   -.1868
  .638   -.5371
  .727   -.2114
  .793   .0406
  .798   -.1690

ALPHAO(7) =   6.335   BETAO (3) =   .015

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW
  .000   -.3756   -.1306
  .010   -.0524
  .020   -.0146
  .040   -.0066
  .041   -.4357
  .113   -.1491
  .163   -.0679
  .246   -.3162
  .247   -.0482
  .390   -.5540
  .429   -.0100
  .547   -.2966
  .637   -.1786
  .638   -.5612
  .727   -.2013
  .793   .0803
  .798   -.1325

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING TOP   (RETR26)

ALPHAO(7) =   6.332   BETAO (4) =   2.074

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3510	-.0696
.010		-.0217
.020		.0093
.040		.0165
.041	-.3798	
.113	-.1461	
.163		-.0659
.246		-.3163
.247	-.0342	
.390		-.5671
.429	-.0024	
.547	-.2977	
.637		-.1391
.638	-.5719	
.727	-.1709	
.793	.1211	
.798		-.1044

ALPHAO(7) =   6.327   BETAO (5) =   4.123

SECTION (1)RIGHT WING TOP   DEPENDENT VARIABLE CP

Y/BW   .2350   .3640

X/CW		
.000	-.3213	-.0227
.010		-.0046
.020		.0223
.040		.0329
.041	-.3183	
.113	-.1631	
.163		-.0719
.246		-.3292
.247	-.0337	
.390		-.5896
.429	.0038	
.547	-.2967	
.637		-.1306
.638	-.5798	
.727	-.1608	
.793	.1464	
.798		-.0819

ARC11-019 IA81 LVAP(SBHL UNSEALD) RT. WING BOT.   (RETWO1)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   3.000
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAO (1) =   .005   ALPHAO(1) =   -6.286

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0315
   .010   -.0337
   .020   -.0005
   .040   .0071
   .086   .1064
   .163   .0350
   .246   .0579
   .390   .0533
   .798   .0000

BETAO (1) =   -.006   ALPHAO(2) =   -4.148

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0096
   .010   .0056
   .020   .0426
   .040   .0532
   .086   .1377
   .163   .0689
   .246   .0970
   .390   .0838
   .798   .0000

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL UNSEALD) RT. WING BOT.   (RETWO1)

BETAO (1) =   -.021   ALPHAO(3) =   -2.025

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0303
.010	.0027
.020	.0439
.040	.0581
.086	.1581
.163	.1005
.246	.1416
.390	.1101
.798	.0000

BETAO (1) =   -.030   ALPHAO(4) =   .092

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0565
.010	.0132
.020	.0715
.040	.0886
.086	.2069
.163	.1464
.246	.1807
.390	.1355
.798	.0000

BETAO (1) =   -.026   ALPHAO(5) =   2.226

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1284
.010	.0002
.020	.0737
.040	.0929
.086	.2378
.163	.1800
.246	.2120
.390	.1410
.798	.0000

IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL UNSEALD) RT. WING BOT.   (RETWOI)

BETAO (1) =   -.018   ALPHAO(6) =   4.337

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2298
  .010   -.0499
  .020   .0591
  .040   .0873
  .086   .2587
  .163   .2063
  .246   .2330
  .390   .1420
  .798   .0000

BETAO (1) =   -.001   ALPHAO(7) =   6.460

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.4514
  .010   -.1378
  .020   .0456
  .040   .0803
  .086   .2842
  .163   .2353
  .246   .2517
  .390   .1379
  .798   .0000

BETAO (1) =   .009   ALPHAO(8) =   8.583

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.6037
  .010   -.1687
  .020   .0118
  .040   .0507
  .086   .2836
  .163   .2503
  .246   .2635
  .390   .1308
  .798   .0000

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING BOT.   (RETW02)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .500   RN/FT =   3.200
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAO (1) =   -.006   ALPHAO(1) =   -6.155

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0392
   .010   .0036
   .020   .0315
   .040   .0279
   .086   -.0464
   .163   -.1181
   .246   -.0757
   .390   -.1757
   .798   .0000

BETAO (1) =   -.020   ALPHAO(2) =   -4.065

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0749
   .010   .0538
   .020   .0673
   .040   .0643
   .086   -.0114
   .163   -.0795
   .246   -.0391
   .390   -.1585
   .798   .0000

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING BOT.   (RETW02)

BETAO (1) =   -.028   ALPHAO(3) =   -1.995

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0877
   .010   .0777
   .020   .0951
   .040   .0911
   .086   .0295
   .163   -.0440
   .246   -.0176
   .390   -.1462
   .798   .0000

BETAO (1) =   -.031   ALPHAO(4) =   .078

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0656
   .010   .0912
   .020   .1133
   .040   .1143
   .086   .0670
   .163   -.0031
   .246   .0157
   .390   -.1338
   .798   .0000

BETAO (1) =   -.032   ALPHAO(5) =   2.167

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0201
   .010   .0812
   .020   .1212
   .040   .1259
   .086   .1019
   .163   .0344
   .246   .0380
   .390   -.1265
   .798   .0000

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING BOT.   (RETW02)

BETAO (1) =   -.026   ALPHAO(6) =   4.242

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0592
.010   .0596
.020   .1241
.040   .1320
.086   .1433
.163   .0770
.246   .0668
.390   -.1167
.798   .0000

BETAO (1) =   -.007   ALPHAO(7) =   6.338

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1578
.010   .0191
.020   .1152
.040   .1326
.086   .1736
.163   .1025
.246   .0920
.390   -.0985
.798   .0000

DATE 21 OCT 75   IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA8I LVAP(SBHL SEALED)   RT. WING BOT.   (RETW03)   (02 OCT 74)

PARAMETRIC DATA

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT		MACH =	.900	RN/FT =	3.500
LREF =	1297.0000 INCHES	YMRP =	.0000 IN. YT		ELV-IB =	.000	ELV-OB =	.000
BREF =	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT		RUDDER =	.000	SPDBRK =	55.000
SCALE =	.0300 SCALE							

BETAO (1) =   .027   ALPHAO(1) =   -6.277

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0939
.010	.0759
.020	.0954
.040	.0974
.086	.0445
.163	-.0423
.246	-.0085
.390	-.0830
.798	.0000

BETAO (1) =   .004   ALPHAO(2) =   -4.157

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.1152
.010	.1025
.020	.1213
.040	.1175
.086	.0717
.163	-.0120
.246	.0223
.390	-.0723
.798	.0000

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING BOT.   (RETW03)

BETAO (1) =   -.020   ALPHAO(3) =   -2.045

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .1179
  .010   .1243
  .020   .1402
  .040   .1444
  .086   .1127
  .163   .0343
  .246   .0599
  .390   -.0520
  .798   .0000

BETAO (1) =   -.030   ALPHAO(4) =   .070

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0915
  .010   .1242
  .020   .1529
  .040   .1580
  .086   .1452
  .163   .0679
  .246   .0859
  .390   -.0449
  .798   .0000

BETAO (1) =   -.035   ALPHAO(5) =   2.209

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0308
  .010   .1089
  .020   .1593
  .040   .1656
  .086   .1769
  .163   .1079
  .246   .1161
  .390   -.0326
  .798   .0000

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING BOT.   (RETH03)

BETAO (1) =   -.028   ALPHAO(6) =   4.323

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0312
  .010   .0858
  .020   .1597
  .040   .1714
  .086   .2063
  .163   .1356
  .246   .1382
  .390   -.0220
  .798   .0000

BETAO (1) =   .066   ALPHAO(7) =   6.247

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1339
  .010   .0517
  .020   .1522
  .040   .1712
  .086   .2276
  .163   .1515
  .246   .1501
  .390   -.0172
  .798   .0000

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING BOT.   (RETW04)   (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   1.100   RN/FT   =   3.000
ELV-IB =   .000   ELV-OB =   .000
RUDDER =   .000   SPDBRK =   55.000

BETAO (1) =   .066   ALPHAO(1) =   -4.854

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0157
.010	-.0059
.020	.0232
.040	.0356
.086	.1238
.163	.0529
.246	.0739
.390	.0658
.798	.0000

BETAO (1) =   .066   ALPHAO(2) =   -3.849

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0079
.010	.0057
.020	.0363
.040	.0490
.086	.1337
.163	.0652
.246	.0883
.390	.0777
.798	.0000

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING BOT.   (RETW04)

BETAO (1) =   .067   ALPHAO(3) =   -1.842

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0210
   .010   .0145
   .020   .0560
   .040   .0697
   .086   .1701
   .163   .1032
   .246   .1364
   .390   .1090
   .798   .0000

BETAO (1) =   .067   ALPHAO(4) =   .164

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0602
   .010   .0102
   .020   .0658
   .040   .0844
   .086   .2020
   .163   .1418
   .246   .1763
   .390   .1311
   .798   .0000

BETAO (1) =   .067   ALPHAO(5) =   2.192

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1282
   .010   -.0032
   .020   .0721
   .040   .0899
   .086   .2378
   .163   .1784
   .246   .2076
   .390   .1406
   .798   .0000

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING BOT.   (RETW04)

BETAO (1) =   .066   ALPHAO(6) =   4.200

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.2376
.010	-.0495
.020	.0622
.040	.0886
.086	.2593
.163	.2075
.246	.2331
.390	.1412
.798	.0000

BETAO (1) =   .066   ALPHAO(7) =   5.218

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.3229
.010	-.0833
.020	.0545
.040	.0868
.086	.2650
.163	.2142
.246	.2338
.390	.1309
.798	.0000

ARC11-019 IA81 LVAP(SBHL SEALED) RT. WING BOT.   (RETW05)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.250   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAO (1) =   .069   ALPHAO(1) =   -5.882

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.1799
     .010   -.1076
     .020   -.1073
     .040   -.1168
     .086   -.0076
     .163   -.0121
     .246   .0602
     .390   .0213
     .798   .0000

BETAO (1) =   .070   ALPHAO(2) =   -3.880

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.1470
     .010   -.0954
     .020   -.0945
     .040   -.1012
     .086   .0336
     .163   .0282
     .246   .0792
     .390   .0499
     .798   .0000

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING BOT.   (RETW05)

BETAO (1) =   .070   ALPHAO(3) =   -1.873

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0822
.010	-.0450
.020	-.0450
.040	-.0536
.086	.0841
.163	.0707
.246	.1222
.390	.1146
.798	.0000

BETAO (1) =   .070   ALPHAO(4) =   .113

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0680
.010	-.0331
.020	-.0283
.040	-.0334
.086	.1268
.163	.1135
.246	.1602
.390	.1717
.798	.0000

BETAO (1) =   .070   ALPHAO(5) =   2.177

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1295
.010	-.0548
.020	-.0313
.040	-.0351
.086	.1681
.163	.1640
.246	.1967
.390	.1919
.798	.0000

ARC11-019 IA81 LVAP(SBHL SEALED)   RT. WING BOT.   (RETW05)

BETAO (1) =   .070   ALPHAO(6) =   4.185

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2359
  .010   -.1045
  .020   -.0566
  .040   -.0524
  .086   .2024
  .163   .1875
  .246   .2298
  .390   .1951
  .798   .0000

BETAO (1) =   .069   ALPHAO(7) =   6.212

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.3401
  .010   -.1338
  .020   -.0429
  .040   -.0030
  .086   .2218
  .163   .2081
  .246   .2362
  .390   .1721
  .798   .0000

BETAO (1) =   .069   ALPHAO(8) =   7.214

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.3716
  .010   -.1263
  .020   -.0053
  .040   .0411
  .086   .2315
  .163   .2204
  .246   .2509
  .390   .1848
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW06)   (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

```
SREF  = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF  = 1297.0000 INCHES   YMRP =      .0000 IN. YT
BREF  = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =     .0300 SCALE
```

```
MACH    =    .600   RN/FT  =   2.250
ELV-1B  =   8.000   ELV-OB =   4.000
RUDDER  =    .000   SPDBRK =    .000
```

ALPHAO(1) =   -6.048   BETAO (1) =   -.007

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0225
.010	-.0053
.020	.0146
.040	.0173
.086	-.0479
.163	-.1210
.246	-.0706
.390	-.1510
.798	.0000

ALPHAO(2) =   -4.013   BETAO (1) =   -4.061

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0321
.010	.0361
.020	.0424
.040	.0424
.086	-.0064
.163	-.0609
.246	-.0536
.390	-.1460
.798	.0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW06)

ALPHAO(2) =   -3.984   BETAO (2) =   .011

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   .0574
    .010   .0378
    .020   .0452
    .040   .0441
    .086   -.0203
    .163   -.0889
    .246   -.0481
    .390   -.1471
    .798   .0000

ALPHAO(2) =   -3.968   BETAO (3) =   4.081

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   .0777
    .010   .0320
    .020   .0521
    .040   .0495
    .086   -.0154
    .163   -.0771
    .246   -.0160
    .390   -.1030
    .798   .0000

ALPHAO(3) =   .074   BETAO (1) =   -6.097

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.0493
    .010   -.0436
    .020   -.0100
    .040   .0036
    .086   .0403
    .163   -.0043
    .246   -.0195
    .390   -.1411
    .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW06)

ALPHAO(3) =   .072   BETAO (2) =   -4.067

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0348
  .010   -.0022
  .020   .0340
  .040   .0392
  .086   .0534
  .163   .0046
  .246   -.0043
  .390   -.1166
  .798   .0000

ALPHAO(3) =   .076   BETAO (3) =   -.005

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0462
  .010   .0717
  .020   .0922
  .040   .0975
  .086   .0586
  .163   .0113
  .246   .0081
  .390   -.1217
  .798   .0000

ALPHAO(3) =   .087   BETAO (4) =   4.063

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0989
  .010   .1090
  .020   .1258
  .040   .1232
  .086   .0717
  .163   .0113
  .246   .0444
  .390   -.0702
  .798   .0000

ALPHAO(3) =   .090   BETAO (5) =   6.100

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .1201
  .010     .1357
  .020     .1441
  .040     .1383
  .086     .0850
  .163     .0211
  .246     .0655
  .390    -.0591
  .798     .0000
```

ALPHAO(4) =   4.240   BETAO (1) =   -4.061

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.1871
  .010    -.0841
  .020     .0053
  .040     .0238
  .086     .1079
  .163     .0732
  .246     .0506
  .390    -.0883
  .798     .0000
```

ALPHAO(4) =   4.239   BETAO (2) =   -.008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.0851
  .010     .0340
  .020     .1055
  .040     .1128
  .086     .1352
  .163     .0621
  .246     .0627
  .390    -.0986
  .798     .0000
```

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW06)

ALPHAO(4) =   4.236   BETAO (3) =   4.070

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.0129
    .010   .1081
    .020   .1570
    .040   .1627
    .086   .1591
    .163   .0913
    .246   .1034
    .390   -.0458
    .798   .0000

ALPHAO(5) =   8.382   BETAO (1) =   -.008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.3135
    .010   -.0508
    .020   .0861
    .040   .1133
    .086   .1862
    .163   .1228
    .246   .1076
    .390   -.0691
    .798   .0000

ALPHAO(6) =   10.453   BETAO (1) =   .004

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.4068
    .010   -.0866
    .020   .0752
    .040   .1050
    .086   .1877
    .163   .1312
    .246   .1207
    .390   -.0541
    .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)   (02 OCT 74)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	976.0000 IN. XT
LREF	=	1297.0000 INCHES	YMRP	=	.0000 IN. YT
BREF	=	1297.0000 INCHES	ZMRP	=	400.0000 IN. ZT
SCALE	=	.0300 SCALE			

PARAMETRIC DATA

MACH	=	.900	RN/FT =	2.250
ELV-IB	=	8.000	ELV-OB =	4.000
RUDDER	=	.000	SPDBRK =	.000

ALPHAO(1) = -11.207   BETAO (1) = -4.037

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0697
.010	.0737
.020	.0807
.040	.0814
.086	.0452
.163	-.0150
.246	-.0150
.390	-.1327
.798	.0000

ALPHAO(1) = -8.684   BETAO (2) = -2.018

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0844
.010	.0742
.020	.0827
.040	.0827
.086	.0393
.163	-.0323
.246	-.0218
.390	-.1395
.798	.0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(1) =   -6.128   BETAO (3) =   .034

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .0754
  .010     .0600
  .020     .0767
  .040     .0767
  .086     .0279
  .163    -.0611
  .246    -.0286
  .390    -.1005
  .798     .0000
```

ALPHAO(1) =   -6.115   BETAO (4) =   2.098

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .0773
  .010     .0417
  .020     .0696
  .040     .0719
  .086     .0239
  .163    -.0718
  .246    -.0086
  .390    -.0055
  .798     .0000
```

ALPHAO(1) =   -6.107   BETAO (5) =   4.143

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .0817
  .010     .0352
  .020     .0678
  .040     .0732
  .086     .0267
  .163    -.0659
  .246     .0244
  .390     .0399
  .798     .0000
```

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(2) =   -4.084   BETAO (1) =   -6.127

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0551
   .010   .0544
   .020   .0629
   .040   .0656
   .086   .0618
   .163   .0154
   .246   .0027
   .390   -.1500
   .798   .0000

ALPHAO(2) =   -4.075   BETAO (2) =   -4.085

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0777
   .010   .0791
   .020   .0853
   .040   .0868
   .086   .0676
   .163   .0189
   .246   .0139
   .390   -.1228
   .798   .0000

ALPHAO(2) =   -4.057   BETAO (3) =   .023

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0980
   .010   .0893
   .020   .1041
   .040   .1025
   .086   .0610
   .163   -.0233
   .246   .0086
   .390   -.0808
   .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(2) =   -4.038   BETAO (4) =   4.117

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .1176
    .010   .0894
    .020   .1058
    .040   .1058
    .086   .0607
    .163   -.0278
    .246   .0584
    .390   .0498
    .798   .0000

ALPHAO(2) =   -4.037   BETAO (5) =   6.169

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .1421
    .010   .0966
    .020   .1183
    .040   .1214
    .086   .0738
    .163   -.0126
    .246   .0862
    .390   .0881
    .798   .0000

ALPHAO(3) =   -2.013   BETAO (1) =   -6.133

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .0335
    .010   .0336
    .020   .0514
    .040   .0553
    .086   .0742
    .163   .0386
    .246   .0281
    .390   -.1388
    .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(3) =   -2.004   BETAO (2) =   -2.060

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0796
  .010   .0944
  .020   .1094
  .040   .1118
  .086   .0944
  .163   .0318
  .246   .0383
  .390   -.1150
  .798   .0000

ALPHAO(3) =   -1.969   BETAO (3) =   2.058

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .1296
  .010   .1297
  .020   .1421
  .040   .1405
  .086   .1043
  .163   .0192
  .246   .0751
  .390   .0362
  .798   .0000

ALPHAO(3) =   -1.958   BETAO (4) =   6.150

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .1691
  .010   .1492
  .020   .1634
  .040   .1627
  .086   .1221
  .163   .0411
  .246   .1237
  .390   .1052
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(4) =   .059   BETAO (1) =   -6.145

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0056
 .010   -.0225
 .020   .0190
 .040   .0317
 .086   .0914
 .163   .0662
 .246   .0553
 .390   -.1146
 .798   .0000

ALPHAO(4) =   .063   BETAO (2) =   -4.101

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0123
 .010   .0190
 .020   .0661
 .040   .0753
 .086   .1089
 .163   .0761
 .246   .0634
 .390   -.1058
 .798   .0000

ALPHAO(4) =   .066   BETAO (3) =   -.005

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   .0782
 .010   .1184
 .020   .1420
 .040   .1431
 .086   .1331
 .163   .0573
 .246   .0735
 .390   -.0568
 .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(4) =   .078   BETAO (4) =   4.088

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   .1335
     .010   .1597
     .020   .1772
     .040   .1760
     .086   .1551
     .163   .0775
     .246   .1283
     .390   .0674
     .798   .0000

ALPHAO(4) =   .082   BETAO (5) =   6.135

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   .1619
     .010   .1846
     .020   .1997
     .040   .1997
     .086   .1699
     .163   .0949
     .246   .1575
     .390   .1092
     .798   .0000

ALPHAO(5) =   2.177   BETAO (1) =   -6.133

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.0502
     .010   -.0584
     .020   .0040
     .040   .0218
     .086   .1086
     .163   .0954
     .246   .0904
     .390   -.0955
     .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(5) =   2.184   BETAO (2) =   -2.056

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0324
   .010   .0443
   .020   .1006
   .040   .1103
   .086   .1469
   .163   .0983
   .246   .0910
   .390   -.0922
   .798   .0000

ALPHAO(5) =   2.185   BETAO (3) =   2.047

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .0705
   .010   .1418
   .020   .1767
   .040   .1820
   .086   .1824
   .163   .1057
   .246   .1360
   .390   .0417
   .798   .0000

ALPHAO(5) =   2.186   BETAO (4) =   6.135

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .1327
   .010   .1946
   .020   .2188
   .040   .2242
   .086   .2088
   .163   .1357
   .246   .1834
   .390   .1076
   .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(6) =   4.257   BETAO (1) =   -6.123

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0801
   .010   -.0835
   .020   -.0040
   .040   .0172
   .086   .1355
   .163   .1286
   .246   .1186
   .390   -.0762
   .798   .0000

ALPHAO(6) =   4.260   BETAO (2) =   -4.081

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1202
   .010   -.0433
   .020   .0427
   .040   .0619
   .086   .1505
   .163   .1317
   .246   .1168
   .390   -.0663
   .798   .0000

ALPHAO(6) =   4.257   BETAO (3) =   -.003

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0325
   .010   .0851
   .020   .1481
   .040   .1600
   .086   .1946
   .163   .1220
   .246   .1235
   .390   -.0330
   .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(6) =   4.257   BETAO (4) =   4.093

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0482
   .010   .1635
   .020   .2108
   .040   .2178
   .086   .2324
   .163   .1566
   .246   .1827
   .390   .0784
   .798   .0000

ALPHAO(6) =   4.251   BETAO (5) =   6.145

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0731
   .010   .1898
   .020   .2369
   .040   .2446
   .086   .2454
   .163   .1736
   .246   .2021
   .390   .0978
   .798   .0000

ALPHAO(7) =   6.353   BETAO (1) =   -4.069

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1869
   .010   -.0791
   .020   .0337
   .040   .0579
   .086   .1672
   .163   .1527
   .246   .1373
   .390   -.0507
   .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(7) =   6.352   BETAO (2) =   -2.035

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2039
  .010   -.0255
  .020   .0870
  .040   .1113
  .086   .1941
  .163   .1401
  .246   .1313
  .390   -.0741
  .798   .0000

ALPHAO(7) =   6.347   BETAO (3) =   .010

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1373
  .010   .0431
  .020   .1416
  .040   .1612
  .086   .2219
  .163   .1454
  .246   .1412
  .390   -.0307
  .798   .0000

ALPHAO(7) =   6.344   BETAO (4) =   2.069

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0678
  .010   .0998
  .020   .1842
  .040   .1973
  .086   .2362
  .163   .1549
  .246   .1661
  .390   .0359
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW07)

ALPHAO(7) =   6.340   BETAO (5) =   4.114

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0401
   .010   .1400
   .020   .2111
   .040   .2211
   .086   .2447
   .163   .1697
   .246   .1871
   .390   .0592
   .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW08)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   3.000
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   .064   BETAO (1) =   -6.230

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.0675
    .010   -.0936
    .020   -.0142
    .040   .0027
    .086   .1302
    .163   .1302
    .246   .1590
    .390   -.0236
    .798   .0000

ALPHAO(1) =   .071   BETAO (2) =   -4.159

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.1284
    .010   -.0799
    .020   .0110
    .040   .0341
    .086   .1594
    .163   .1467
    .246   .1673
    .390   .0270
    .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETWOB)

ALPHAO(1) =   .075   BETAO (3) =   -.029

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0614
  .010   .0040
  .020   .0620
  .040   .0795
  .086   .1991
  .163   .1363
  .246   .1745
  .390   .1302
  .798   .0000

ALPHAO(1) =   .094   BETAO (4) =   4.123

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0136
  .010   .0167
  .020   .0043
  .040   -.0100
  .086   .2269
  .163   .1540
  .246   .2490
  .390   .3070
  .798   .0000

ALPHAO(1) =   .103   BETAO (5) =   6.207

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0488
  .010   .0443
  .020   .0369
  .040   .0178
  .086   .2376
  .163   .1628
  .246   .2839
  .390   .3544
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW08)

ALPHAO(2) =   2.216   BETAO (1) =   -6.219

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0942
   .010   -.1327
   .020   -.0281
   .040   -.0026
   .086   .1542
   .163   .1665
   .246   .1909
   .390   .0012
   .798   .0000

ALPHAO(2) =   2.214   BETAO (2) =   -2.090

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1834
   .010   -.0634
   .020   .0373
   .040   .0622
   .086   .2153
   .163   .1748
   .246   .1947
   .390   .0599
   .798   .0000

ALPHAO(2) =   2.224   BETAO (3) =   2.058

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1001
   .010   -.0196
   .020   .0712
   .040   .1030
   .086   .2518
   .163   .1897
   .246   .2451
   .390   .2500
   .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETWOB)

ALPHAO(2) =   2.234   BETAO (4) =   6.197

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000     .0033
 .010     .0488
 .020     .0468
 .040     .0333
 .086     .2853
 .163     .2294
 .246     .3305
 .390     .3688
 .798     .0000
```

ALPHAO(3) =   4.330   BETAO (1) =   -4.129

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000    -.2412
 .010    -.1668
 .020    -.0159
 .040     .0189
 .086     .1907
 .163     .1798
 .246     .1986
 .390     .0446
 .798     .0000
```

ALPHAO(3) =   4.329   BETAO (2) =   -.008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000    -.2449
 .010    -.0536
 .020     .0576
 .040     .0849
 .086     .2572
 .163     .2040
 .246     .2300
 .390     .1386
 .798     .0000
```

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW08)

ALPHAO(3) =   4.334   BETAO (3) =   4.139

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1240
.010   -.0073
.020   .0570
.040   .1183
.086   .3050
.163   .2504
.246   .3104
.390   .3055
.798   .0000

ALPHAO(3) =   4.334   BETAO (4) =   6.220

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0743
.010   .0386
.020   .0632
.040   .0931
.086   .3216
.163   .2663
.246   .3398
.390   .3449
.798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   1.100   RN/FT =   2.250
ELV-IB =   8.000   ELV-OB =   4.000
RUDDER =   .000   SPDBRK =   .000

ALPHAO(1) =   -6.236   BETAO (1) =   -4.085

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0187
.010	-.0065
.020	.0142
.040	.0260
.086	.0860
.163	.0372
.246	.0592
.390	-.0617
.798	.0000

ALPHAO(1) =   -6.225   BETAO (2) =   -2.030

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0151
.010	-.0033
.020	.0156
.040	.0237
.086	.0877
.163	.0315
.246	.0545
.390	-.0308
.798	.0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(1) = -6.193   BETAO (3) =   .032

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0352
.010   -.0318
.020   -.0034
.040   .0054
.086   .0983
.163   .0253
.246   .0432
.390   .0520
.798   .0000

ALPHAO(1) = -6.179   BETAO (4) =   2.098

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0218
.010   -.0618
.020   -.0557
.040   -.0520
.086   .1053
.163   .0104
.246   .0382
.390   .1510
.798   .0000

ALPHAO(1) = -6.167   BETAO (5) =   4.163

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0015
.010   -.0514
.020   -.0555
.040   -.0748
.086   .1186
.163   .0158
.246   .0409
.390   .2196
.798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(2) =   -4.143   BETAO (1) =   -6.157

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0190
  .010   -.0225
  .020   .0089
  .040   .0187
  .086   .0749
  .163   .0539
  .246   .0766
  .390   -.0963
  .798   .0000

ALPHAO(2) =   -4.132   BETAO (2) =   -4.105

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0196
  .010   -.0018
  .020   .0232
  .040   .0320
  .086   .1014
  .163   .0697
  .246   .0883
  .390   -.0355
  .798   .0000

ALPHAO(2) =   -4.101   BETAO (3) =   .017

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0170
  .010   -.0047
  .020   .0284
  .040   .0372
  .086   .1237
  .163   .0585
  .246   .0852
  .390   .0743
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(2) =   -4.075   BETAO (4) =   4.131

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   .0248
     .010   -.0199
     .020   -.0351
     .040   -.0555
     .086   .1418
     .163   .0344
     .246   .1144
     .390   .2462
     .798   .0000

ALPHAO(2) =   -4.067   BETAO (5) =   6.191

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   .0605
     .010   .0092
     .020   -.0020
     .040   -.0257
     .086   .1572
     .163   .0478
     .246   .1484
     .390   .3036
     .798   .0000

ALPHAO(3) =   -2.045   BETAO (1) =   -6.165

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.0249
     .010   -.0379
     .020   .0058
     .040   .0166
     .086   .0992
     .163   .0891
     .246   .1125
     .390   -.0639
     .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(3) =   -2.034   BETAO (2) =   -2.072

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0291
  .010   .0121
  .020   .0535
  .040   .0637
  .086   .1533
  .163   .1021
  .246   .1244
  .390   .0192
  .798   .0000

ALPHAO(3) =   -1.993   BETAO (3) =   2.059

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0006
  .010   -.0166
  .020   -.0084
  .040   .0105
  .086   .1695
  .163   .0873
  .246   .1597
  .390   .2121
  .798   .0000

ALPHAO(3) =   -1.978   BETAO (4) =   6.163

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0694
  .010   .0336
  .020   .0176
  .040   -.0041
  .086   .1904
  .163   .0925
  .246   .2209
  .390   .3246
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(4) =   .052   BETAO (1) =   -6.173

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0430
  .010   -.0671
  .020   -.0061
  .040   .0184
  .086   .1208
  .163   .1188
  .246   .1439
  .390   -.0356
  .798   .0000

ALPHAO(4) =   .055   BETAO (2) =   -4.122

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1106
  .010   -.0690
  .020   .0112
  .040   .0339
  .086   .1537
  .163   .1378
  .246   .1608
  .390   .0200
  .798   .0000

ALPHAO(4) =   .063   BETAO (3) =   -.022

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0685
  .010   .0020
  .020   .0566
  .040   .0750
  .086   .1923
  .163   .1316
  .246   .1669
  .390   .1150
  .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(4) =   .079   BETAO (4) =   4.095

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0065
.010   .0105
.020   -.0037
.040   -.0156
.086   .2187
.163   .1462
.246   .2394
.390   .2937
.798   .0000

ALPHAO(4) =   .086   BETAO (5) =   6.161

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0385
.010   .0402
.020   .0263
.040   .0117
.086   .2292
.163   .1556
.246   .2737
.390   .3415
.798   .0000

ALPHAO(5) =   2.173   BETAO (1) =   -6.160

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0997
.010   -.1138
.020   -.0273
.040   .0018
.086   .1493
.163   .1582
.246   .1805
.390   -.0073
.798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(5) =   2.175   BETAO (2) =   -2.076

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

 X/CW
    .000   -.1811
    .010   -.0712
    .020   .0259
    .040   .0511
    .086   .2049
    .163   .1628
    .246   .1838
    .390   .0433
    .798   .0000

ALPHAO(5) =   2.187   BETAO (3) =   2.048

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

 X/CW
    .000   -.1072
    .010   -.0160
    .020   .0693
    .040   .0991
    .086   .2433
    .163   .1816
    .246   .2334
    .390   .2351
    .798   .0000

ALPHAO(5) =   2.192   BETAO (4) =   6.163

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

 X/CW
    .000   -.0090
    .010   .0342
    .020   .0285
    .040   .0210
    .086   .2706
    .163   .2108
    .246   .3093
    .390   .3447
    .798   .0000

　　　　IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.　　　　(RETW09)

ALPHAO(6) =　4.247　BETAO (1) =　-6.141

SECTION (1)RIGHT WING BOTTOM　　　　DEPENDENT VARIABLE CP

Y/BW　　.3640

X/CW
.000	-.1318
.010	-.1434
.020	-.0402
.040	-.0061
.086	.1651
.163	.1796
.246	.2019
.390	.0058
.798	.0000

ALPHAO(6) =　4.249　BETAO (2) =　-4.095

SECTION (1)RIGHT WING BOTTOM　　　　DEPENDENT VARIABLE CP

Y/BW　　.3640

X/CW
.000	-.2039
.010	-.1553
.020	-.0165
.040	.0150
.086	.1853
.163	.1728
.246	.1897
.390	.0353
.798	.0000

ALPHAO(6) =　4.254　BETAO (3) =　-.002

SECTION (1)RIGHT WING BOTTOM　　　　DEPENDENT VARIABLE CP

Y/BW　　.3640

X/CW
.000	-.2441
.010	-.0645
.020	.0454
.040	.0746
.086	.2445
.163	.1946
.246	.2201
.390	.1193
.798	.0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(6) =   4.256   BETAO (4) =   4.108

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1289
.010   -.0169
.020   .0533
.040   .1065
.086   .2957
.163   .2411
.246   .2094
.390   .2936
.798   .0000

ALPHAO(6) =   4.255   BETAO (5) =   6.174

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0865
.010   .0265
.020   .0573
.040   .0946
.086   .3111
.163   .2575
.246   .32F3
.390   .33.7
.798   .0000

ALPHAO(7) =   6.369   BETAO (1) =   -4.073

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.2497
.010   -.1719
.020   -.0199
.040   .0146
.086   .1946
.163   .1828
.246   .2000
.390   .04%6
.798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(7) =   6.370   BETAO (2) =   -2.035

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.3846
    .010   -.1397
    .020   .0158
    .040   .0524
    .086   .2289
    .163   .2056
    .246   .2194
    .390   .0578
    .798   .0000

ALPHAO(7) =   6.369   BETAO (3) =   .015

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.4343
    .010   -.1321
    .020   .0333
    .040   .0691
    .086   .2687
    .163   .2217
    .246   .2332
    .390   .1172
    .798   .0000

ALPHAO(7) =   6.366   BETAO (4) =   2.074

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.3442
    .010   -.0669
    .020   .0587
    .040   .0918
    .086   .3054
    .163   .2518
    .246   .2727
    .390   .2180
    .798   .0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) RT. WING BOT.   (RETW09)

ALPHAO(7) =   6.365   BETAO (5) =   4.127

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2428
  .010   -.0308
  .020   .1087
  .040   .1414
  .086   .3180
  .163   .2674
  .246   .3055
  .390   .2670
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW10)   (02 OCT 74)

PARAMETRIC DATA

REFERENCE DATA

MACH	=	1.100	RN/FT =	2.250
ELV-IB	=	8.000	ELV-OB =	4.000
RUDDER	=	.000	SPDBRK =	.000

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

BETAO (1) =   .019   ALPHAO(1) =   -6.200

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0349
  .010   -.0347
  .020   -.0057
  .040   .0041
  .086   .0970
  .163   .0214
  .246   .0443
  .390   .0477
  .798   .0000

BETAO (1) =   .001   ALPHAO(2) =   -4.091

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0144
  .010   .0002
  .020   .0333
  .040   .0434
  .086   .1270
  .163   .0549
  .246   .0801
  .390   .0721
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETWID)

BETAO (1) =   -.016   ALPHAO(3) =   -2.000

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0242
  .010   .0096
  .020   .0497
  .040   .0611
  .086   .1599
  .163   .0925
  .246   .1235
  .390   .1016
  .798   .0000

BETAO (1) =   -.022   ALPHAO(4) =   .085

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0643
  .010   .0046
  .020   .0599
  .040   .0751
  .086   .1895
  .163   .1291
  .246   .1635
  .390   .1200
  .798   .0000

BETAO (1) =   -.019   ALPHAO(5) =   2.189

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1407
  .010   -.0155
  .020   .0536
  .040   .0723
  .086   .2187
  .163   .1658
  .246   .1936
  .390   .1221
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW10)

BETAO (1) =   -.014   ALPHAO(6) =   4.274

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.2364
 .010   -.0549
 .020   .0521
 .040   .0808
 .086   .2522
 .163   .1989
 .246   .2235
 .390   .1284
 .798   .0000

BETAO (1) =   .001   ALPHAO(7) =   6.376

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.4402
 .010   -.1393
 .020   .0315
 .040   .0680
 .086   .2674
 .163   .2232
 .246   .2367
 .390   .1155
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11) (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.250   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.258   BETAO (1) =   -4.078

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.1124
   .010   -.1144
   .020   -.0940
   .040   -.0841
   .086   .0137
   .163   .0051
   .246   .0350
   .390   -.0673
   .738   .0000

ALPHAO(1) =   -6.244   BETAO (2) =   -2.027

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.1096
   .010   -.1216
   .020   -.1239
   .040   -.1264
   .086   .0024
   .163   .0145
   .246   .0384
   .390   -.0179
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11)

ALPHAO(1) =   -6.209   BETAO (3) =   .049

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.1770
    .010   -.1116
    .020   -.1088
    .040   -.1190
    .086   -.0018
    .163   -.0060
    .246   .0552
    .390   .0233
    .798   .0000

ALPHAO(1) =   -6.193   BETAO (4) =   2.114

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.2150
    .010   -.1954
    .020   -.0791
    .040   -.0746
    .086   -.0705
    .163   -.0736
    .246   .0602
    .390   .1517
    .798   .0000

ALPHAO(1) =   -6.181   BETAO (5) =   4.175

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.1789
    .010   -.3223
    .020   -.0827
    .040   -.0314
    .086   -.0932
    .163   -.0661
    .246   .0922
    .390   .2521
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11)

ALPHAO(2) =   -4.161   BETAO (1) =   -6.152

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1039
  .010   -.0946
  .020   -.0637
  .040   -.0523
  .086   .0544
  .163   .0433
  .246   .0773
  .390   -.0494
  .798   .0000

ALPHAO(2) =   -4.149   BETAO (2) =   -4.101

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1075
  .010   -.0996
  .020   -.0703
  .040   -.0551
  .086   .0499
  .163   .0339
  .246   .0666
  .390   -.0402
  .798   .0000

ALPHAO(2) =   -4.119   BETAO (3) =   .013

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1407
  .010   -.0904
  .020   -.0917
  .040   -.0980
  .086   .0425
  .163   .0422
  .246   .0800
  .390   .0574
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11)

ALPHAO(2) =   -4.090   BETAO (4) =   4.141

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.1572
  .010    -.2638
  .020    -.0108
  .040     .0108
  .086    -.0666
  .163    -.0258
  .246     .1086
  .390     .2915
  .798     .0000
```

ALPHAO(2) =   -4.088   BETAO (5) =   6.203

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.1093
  .010    -.2077
  .020    -.0035
  .0%0     .0741
  .086    -.0425
  .163    -.0016
  .246     .1379
  .390     .3565
  .798     .0000
```

ALPHAO(3) =   -2.044   BETAO (1) =   -6.169

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.1136
  .010    -.1098
  .020    -.0704
  .040    -.0606
  .086     .0752
  .163     .0745
  .246     .1075
  .390    -.0267
  .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW11)

ALPHAO(3) =   -2.029   BETAO (2) =   -2.075

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0935
.010	-.0729
.020	-.0538
.040	-.0446
.086	.0793
.163	.0739
.246	.1114
.390	.0453
.798	.0000

ALPHAO(3) =   -2.008   BETAO (3) =   2.060

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1604
.010	-.0006
.020	.0163
.040	.0077
.086	.0459
.163	.0001
.246	.1292
.390	.2570
.798	.0000

ALPHAO(3) =   -1.995   BETAO (4) =   6.179

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0989
.010	-.1364
.020	.1138
.040	.1014
.086	-.0291
.163	.0231
.246	.1574
.390	.3913
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11)

ALPHAO(4) =   .066   BETAO (1) =   -6.174

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
   000    -.1401
   .010   -.1643
   .020   -.1015
   .040   -.0731
   .086    .0974
   .163    .1083
   .246    .1414
   .390    .0002
   .798    .0000
```

ALPHAO(4) =   .072   BETAO (2) =   -4.124

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
   .000   -.1407
   .010   -.0931
   .020   -.0409
   .040   -.0282
   .086    .1058
   .163    .1039
   .246    .1462
   .390    .0631
   .798    .0000
```

ALPHAO(4) =   .075   BETAO (3) =   -.018

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
   .000   -.0671
   .010   -.0381
   .020   -.0304
   .040   -.0362
   .086    .1263
   .163    .1238
   .246    .1603
   .390    .1724
   .798    .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW11)

ALPHAO(4) =   .088   BETAO (4) =   4.105

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1217
  .010   .0728
  .020   .0789
  .040   .0687
  .086   -.0020
  .163   .0206
  .246   .1861
  .390   .3742
  .798   .0000

ALPHAO(4) =   .092   BETAO (5) =   6.164

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0949
  .010   .0900
  .020   .1297
  .040   .1179
  .086   .0013
  .163   .0566
  .246   .1989
  .390   .4239
  .798   .0000

ALPHAO(5) =   1.116   BETAO (1) =   -6.171

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1586
  .010   -.1798
  .020   -.0939
  .040   -.0659
  .086   .1177
  .163   .1339
  .246   .1705
  .390   .0219
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW11)

ALPHAO(5) =   1.120   BETAO (2) =   -2.081

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1274
   .010   -.0829
   .020   -.0518
   .040   -.0365
   .086   .1300
   .163   .1303
   .246   .1646
   .390   .1106
   .798   .0000

ALPHAO(5) =   1.132   BETAO (3) =   2.044

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0334
   .010   .0195
   .020   .0195
   .040   .0080
   .086   .1794
   .163   .0877
   .246   .1826
   .390   .2942
   .798   .0000

ALPHAO(5) =   1.141   BETAO (4) =   6.158

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0944
   .010   .1238
   .020   .1270
   .040   .1164
   .086   .0059
   .163   .0638
   .246   .2360
   .390   .4343
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11)

ALPHAO(6) =   3.217   BETAO (1) =   -6.163

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2093
  .010   -.2105
  .020   -.1101
  .040   -.0803
  .086   .1366
  .163   .1582
  .246   .2008
  .390   .0471
  .798   .0000

ALPHAO(6) =   3.218   BETAO (2) =   -4.114

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2343
  .010   -.1549
  .020   -.0590
  .040   -.0298
  .086   .1449
  .163   .1462
  .246   .1868
  .390   .0827
  .798   .0000

ALPHAO(6) =   3.223   BETAO (3) =   -.012

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1955
  .010   -.0901
  .020   -.0600
  .040   -.0581
  .086   .1821
  .163   .1758
  .246   .2091
  .390   .1888
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW11)

ALPHAO(6) =   3.229   BETAO (4) =   4.104

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.0401
    .010   .0542
    .020   .0679
    .040   .0621
    .086   .2241
    .163   .1215
    .246   .2600
    .390   .3848
    .798   .0000

ALPHAO(6) =   3.228   BETAO (5) =   6.167

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0268
    .010   .1172
    .020   .1248
    .040   .1162
    .086   .0752
    .163   .1203
    .246   .3036
    .390   .4386
    .798   .0000

ALPHAO(7) =   5.320   BETAO (1) =   -4.097

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.3161
    .010   -.1962
    .020   -.0553
    .040   -.0173
    .086   .1623
    .163   .1572
    .246   .1928
    .390   .0801
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW11)

ALPHAO(7) =   5.323   BETAO (2) =   -2.054

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.3752
.010	-.1786
.020	-.0421
.040	.0182
.086	.1842
.163	.1769
.246	.2099
.390	.1134
.798	.0000

ALPHAO(7) =   5.325   BETAO (3) =   .002

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.3013
.010	-.1258
.020	-.0585
.040	-.0398
.086	.2120
.163	.1989
.246	.2256
.390	.1732
.798	.0000

ALPHAO(7) =   5.323   BETAO (4) =   2.067

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1883
.010	-.0401
.020	-.0027
.040	.0005
.086	.2531
.163	.2414
.246	.2541
.390	.2883
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW11)

ALPHAO(7) =   5.325   BETAO (5) =   4.125

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0687
  .010   .0510
  .020   .0749
  .040   .0676
  .086   .2945
  .163   .2059
  .246   .2748
  .390   .3559
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW12)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.400   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.305   BETAO (1) =   -4.079

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0643
   .010   -.0800
   .020   -.1009
   .040   -.1152
   .086   -.0036
   .163   -.0657
   .246   .0151
   .390   -.0421
   .798   .0000

ALPHAO(1) =   -6.288   BETAO (2) =   -2.026

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0528
   .010   -.0456
   .020   -.0533
   .040   -.0666
   .086   -.0248
   .163   -.1043
   .246   .0117
   .390   .0274
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT,   (RETWI2)

ALPHAO(1) =   -6.273   BETAO (3) =   .028

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0949
 .010   -.0792
 .020   -.0340
 .040   -.0383
 .086   -.0761
 .163   -.0842
 .246   -.0015
 .390   .0499
 .798   .0000

ALPHAO(1) =   -6.241   BETAO (4) =   2.117

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0849
 .010   -.1714
 .020   -.0511
 .040   -.0121
 .086   -.0560
 .163   -.0266
 .246   -.0576
 .390   .1064
 .798   .0000

ALPHAO(1) =   -6.229   BETAO (5) =   4.174

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0560
 .010   -.1688
 .020   -.1382
 .040   -.0508
 .086   -.0591
 .163   -.0378
 .246   -.0826
 .390   .1680
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW12)

ALPHAO(2) =   -4.192   BETAO (1) =   -6.158

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.1098
 .010   -.1412
 .020   -.1483
 .040   -.1554
 .086   .0104
 .163   .0073
 .246   .0425
 .390   -.0153
 .798   .0000

ALPHAO(2) =   -4.180   BETAO (2) =   -4.103

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0807
 .010   -.0943
 .020   -.1095
 .040   -.1231
 .086   .0140
 .163   -.0169
 .246   .0583
 .390   -.0101
 .798   .0000

ALPHAO(2) =   -4.157   BETAO (3) =   -.002

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0893
 .010   -.0517
 .020   -.0139
 .040   -.0207
 .086   -.0495
 .163   -.0702
 .246   .0466
 .390   .0884
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW12)

ALPHAO(2) =   -4.134   BETAO (4) =   4.138

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0551
   .010   -.1490
   .020   -.1119
   .040   .0014
   .086   -.0475
   .163   -.0026
   .246   -.0599
   .390   .2532
   .798   .0000

ALPHAO(2) =   -4.123   BETAO (5) =   6.209

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0210
   .010   -.1168
   .020   -.1226
   .040   -.0814
   .086   -.0191
   .163   -.0802
   .246   -.0613
   .390   .3311
   .798   .0000

ALPHAO(3) =   -2.103   BETAO (1) =   -6.173

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1490
   .010   -.1823
   .020   -.1749
   .040   -.1768
   .086   .0270
   .163   .0354
   .246   .0725
   .390   -.0105
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW12)

ALPHAO(3) =   -2.089   BETAO (2) =   -2.072

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.0637
    .010   -.0554
    .020   -.0594
    .040   -.0693
    .086   .0269
    .163   .0000
    .246   .1023
    .390   .0831
    .798   .0000

ALPHAO(3) =   -2.053   BETAO (3) =   2.068

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.0892
    .010   -.1128
    .020   .0325
    .040   .0433
    .086   -.0154
    .163   .0395
    .246   .0820
    .390   .2356
    .798   .0000

ALPHAO(3) =   -2.034   BETAO (4) =   6.180

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.0274
    .010   -.0962
    .020   -.1027
    .040   -.0161
    .086   .0028
    .163   -.0309
    .246   -.0297
    .390   .4047
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT, WING BOT.   (RETW12)

ALPHAO(4) =   .003   BETAO (1) =   -6.180

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1971
    .010   -.2073
    .020   -.1714
    .040   -.1452
    .086   .0593
    .163   .0773
    .246   .1193
    .390   .0154
    .798   .0000

ALPHAO(4) =   .006   BETAO (2) =   -4.126

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1473
    .010   -.1360
    .020   -.1180
    .040   -.1180
    .086   .0857
    .163   .0789
    .246   .1266
    .390   .0681
    .798   .0000

ALPHAO(4) =   .015   BETAO (3) =   -.027

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.0858
    .010   -.0124
    .020   -.0065
    .040   -.0148
    .086   .0276
    .163   .0372
    .246   .1397
    .390   .1623
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT, WING BOT.   (RETW12)

ALPHAO(4) =   .024   BETAO (4) =   4.105

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0709
.010	-.0897
.020	.0545
.040	.0709
.086	.0449
.163	.1167
.246	.0929
.390	.3986
.798	.0000

ALPHAO(4) =   .038   BETAO (5) =   6.165

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0315
.010	-.0715
.020	-.0369
.040	.0781
.086	.0587
.163	.0658
.246	.0305
.390	.4585
.798	.0000

ALPHAO(5) =   2.130   BETAO (1) =   -6.171

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.2407
.010	-.2269
.020	-.1335
.040	-.0903
.086	.0958
.163	.1150
.246	.1632
.390	.0501
.798	.0000

ARC11-019 IA8I LVAP(ELHL SEALED) RT. WING BOT.   (RETW12)

ALPHAO(5) =   2.133   BETAO (2) =   -2.078

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1941
.010	-.1027
.020	-.0745
.040	-.0721
.086	.1255
.163	.1101
.246	.1805
.390	.1456
.798	.0000

ALPHAO(5) =   2.141   BETAO (3) =   2.056

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0910
.010	.0412
.020	.0668
.040	.0650
.086	.0270
.163	.0925
.246	.1972
.390	.3344
.798	.0000

ALPHAO(5) =   2.152   BETAO (4) =   6.169

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0314
.010	-.0503
.020	.0348
.040	.1232
.086	.1288
.163	.1795
.246	.1312
.390	.4995
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW12)

ALPHAO(6) =   4.219   BETAO (1) =   -6.158

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.2963
   .010   -.2555
   .020   -.1405
   .040   -.1111
   .086   .1096
   .163   .1304
   .246   .1781
   .390   .0631
   .798   .0000

ALPHAO(6) =   4.218   BETAO (2) =   -4.108

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.3439
   .010   -.2130
   .020   -.1238
   .040   -.0959
   .086   .1588
   .163   .1461
   .246   .1826
   .390   .1059
   .798   .0000

ALPHAO(6) =   4.224   BETAO (3) =   -.013

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1814
   .010   -.0569
   .020   -.0065
   .040   -.0016
   .086   .2343
   .163   .1227
   .246   .2346
   .390   .2111
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI2)

ALPHAO(6) =   4.226   BETAO (4) =   4.116

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0763
  .010   .1045
  .020   .1372
  .040   .1354
  .086   .0971
  .163   .1632
  .246   .2850
  .390   .4256
  .798   .0000

ALPHAO(6) =   4.218   BETAO (5) =   6.193

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0342
  .010   .0242
  .020   .1844
  .040   .1813
  .086   .1340
  .163   .1887
  .246   .3158
  .390   .4815
  .798   .0000

ALPHAO(7) =   6.323   BETAO (1) = -4.082

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.4092
  .010   -.2150
  .020   -.1094
  .040   -.0756
  .086   .1615
  .163   .1686
  .246   .2036
  .390   .1163
  .798   .0000

ALPHAO(7) =   6.327   BETAO (2) =   -2.045

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.3438
  .010   -.1426
  .020   -.0813
  .040   -.0775
  .086   .1787
  .163   .1849
  .246   .2296
  .390   .1589
  .798   .0000

ALPHAO(7) =   6.326   BETAO (3) =   .008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2485
  .010   -.0619
  .020   -.0040
  .040   -.0018
  .086   .2644
  .163   .1935
  .246   .2437
  .390   .2090
  .798   .0000

ALPHAO(7) =   6.323   BETAO (4) =   2.079

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1415
  .010   .0160
  .020   .0648
  .040   .0633
  .086   .2640
  .163   .1685
  .246   .2634
  .390   .2736
  .798   .0000

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW12)

ALPHAO(7) =   6.317   BETAO (5) =   4.142

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.0431
    .010   .1182
    .020   .1485
    .040   .1435
    .086   .1182
    .163   .2057
    .246   .2913
    .390   .3693
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI3)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .600   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.055   BETAO (1) =   -.005

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .0217
   .010   -.0049
   .020   .0171
   .040   .0196
   .086   -.0551
   .163   -.1195
   .246   -.0730
   .390   -.1533
   .798   .0000

ALPHAO(2) =   -4.020   BETAO (1) =   -4.064

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .0378
   .010   .0362
   .020   .0424
   .040   .0434
   .086   -.0088
   .163   -.0646
   .246   -.0646
   .390   -.1741
   .798   .0000

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW13)

ALPHAO(2) =   -3.985   BETAO (2) =   .001

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0588
   .010   .0429
   .020   .0526
   .040   .0506
   .086   -.0176
   .163   -.0802
   .246   -.0445
   .390   -.1407
   .798   .0000

ALPHAO(2) =   -3.974   BETAO (3) =   4.077

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0845
   .010   .0350
   .020   .0545
   .040   .0545
   .086   -.0152
   .163   -.0742
   .246   -.0121
   .390   -.0983
   .798   .0000

ALPHAO(3) =   .096   BETAO (1) =   -6.101

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0487
   .010   -.0419
   .020   -.0036
   .040   .0042
   .086   .0420
   .163   .0006
   .246   -.0157
   .390   -.1420
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI3)

ALPHAO(3) =   .098   BETAO (2) =   -4.070

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0239
   .010   .0066
   .020   .0423
   .040   .0471
   .086   .0544
   .163   .0119
   .246   .0004
   .390   -.1198
   .799   .0000

ALPHAO(3) =   .086   BETAO (3) =   -.016

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0456
   .010   .0784
   .020   .0998
   .040   .1013
   .086   .0643
   .163   -.0025
   .246   .0111
   .390   -.1157
   .798   .0000

ALPHAO(3) =   .117   BETAO (4) =   4.075

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1024
   .010   .1180
   .020   .1293
   .040   .1309
   .086   .0762
   .163   .0123
   .246   .0474
   .390   -.0759
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW13)

ALPHAO(3) =   .121   BETAO (5) =   6.104

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .1255
.010   .1309
.020   .1459
.040   .1438
.086   .0868
.163   .0226
.246   .0641
.390   -.0608
.798   .0000

ALPHAO(4) =   4.241   BETAO (1) =   -4.062

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1904
.010   -.0822
.020   .0092
.040   .0267
.086   .1093
.163   .0732
.246   .0561
.390   -.0935
.798   .0000

ALPHAO(4) =   4.240   BETAO (2) =   -.004

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0830
.010   .0371
.020   .1043
.040   .1167
.086   .1328
.163   .0614
.246   .0604
.390   -.0994
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW13)

ALPHAO(4) =   4.238   BETAO (3) =   4.073

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0116
   .010   .1122
   .020   .1575
   .040   .1626
   .086   .1601
   .163   .0921
   .246   .0998
   .390   -.0485
   .798   .0000

ALPHAO(5) =   8.385   BETAO (1) =   -.010

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.2856
   .010   -.0426
   .020   .0899
   .040   .1100
   .086   .1874
   .163   .1235
   .246   .1126
   .390   -.0715
   .798   .0000

ALPHAO(6) =   10.456   BETAO (1) =   .002

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.3985
   .010   -.0021
   .020   .0789
   .040   .1084
   .086   .1887
   .163   .1358
   .246   .1247
   .390   -.0572
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW14)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.400   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   -4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.312   BETAO (1) =   -4.066

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0648
   .010   -.0808
   .020   -.1007
   .040   -.1146
   .086   -.0036
   .163   -.0638
   .246   .0168
   .390   -.0424
   .798   .0000

ALPHAO(1) =   -6.295   BETAO (2) =   -2.013

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0621
   .010   -.0570
   .020   -.0657
   .040   -.0778
   .086   -.0337
   .163   -.1045
   .246   .0082
   .390   .0194
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI4)

ALPHAO(1) =   -6.258   BETAO (3) =   .056

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1054
.010   -.0878
.020   -.0456
.040   -.0487
.086   -.0772
.163   -.0931
.246   .0013
.390   .0448
.798   .0000

ALPHAO(1) =   -6.244   BETAO (4) =   2.126

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0938
.010   -.1815
.020   -.0584
.040   -.0196
.086   -.0649
.163   -.0348
.246   -.0640
.390   .1004
.798   .0000

ALPHAO(1) =   -6.233   BETAO (5) =   4.187

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0661
.010   -.1778
.020   -.1489
.040   -.0614
.086   -.0665
.163   -.0486
.246   -.0921
.390   .1640
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW14)

ALPHAO(2) =   -4.204   BETAO (1) =   -6.151

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1114
   .010   -.1453
   .020   -.1512
   .040   -.1577
   .086   .0094
   .163   .0020
   .246   .0410
   .390   -.0176
   .798   .0000

ALPHAO(2) =   -4.193   BETAO (2) =   -4.092

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0796
   .010   -.0953
   .020   -.1104
   .040   -.1216
   .086   .0144
   .163   -.0209
   .246   .0577
   .390   -.0113
   .798   .0000

ALPHAO(2) =   -4.164   BETAO (3) =   .031

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0984
   .010   -.0558
   .020   -.0189
   .040   -.0251
   .086   -.0492
   .163   -.0697
   .246   .0488
   .390   .0894
   .798   .0000

ALPHAO(2) =   -4.142   BETAO (4) =   4.151

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0602
 .010   -.1577
 .020   -.1161
 .040   -.0026
 .086   -.0591
 .163   -.0098
 .246   -.0622
 .390   .2553
 .798   .0000

ALPHAO(2) =   -4.129   BETAO (5) =   6.220

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0261
 .010   -.1216
 .020   -.1275
 .040   -.0810
 .086   -.0221
 .163   -.0788
 .246   -.0645
 .390   .3316
 .798   .0000

ALPHAO(3) =   -2.093   BETAO (1) =   -6.169

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.1535
 .010   -.1818
 .020   -.1756
 .040   -.1747
 .086   .0270
 .163   .0353
 .246   .0719
 .390   -.0121
 .798   .0000

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ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW14)

ALPHAO(3) =   -2.078   BETAO (2) =   -2.063

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.0737
    .010   -.0639
    .020   -.0664
    .040   -.0754
    .086   .0248
    .163   .0028
    .246   .0984
    .390   .0823
    .798   .0000

ALPHAO(3) =   -2.057   BETAO (3) =   2.077

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.0977
    .010   -.1305
    .020   .0223
    .040   .0366
    .086   -.0240
    .163   .0344
    .246   .0816
    .390   .2322
    .798   .0000

ALPHAO(3) =   -2.039   BETAO (4) =   6.185

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.0344
    .010   -.1065
    .020   -.1093
    .040   -.0180
    .086   -.0056
    .163   -.0310
    .246   -.0379
    .390   .4005
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW14)

ALPHAO(4) =   .021   BETAO (1) =   -6.181

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.2032
    .010   -.2150
    .020   -.1713
    .040   -.1436
    .086   .0595
    .163   .0750
    .246   .1185
    .390   .0139
    .798   .0000

ALPHAO(4) =   .023   BETAO (2) =   -4.121

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1637
    .010   -.1495
    .020   -.1290
    .040   -.1247
    .086   .0871
    .163   .0790
    .246   .1286
    .390   .0688
    .798   .0000

ALPHAO(4) =   .027   BETAO (3) =   -2.070

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1100
    .010   -.0766
    .020   -.0611
    .040   -.0626
    .086   .0600
    .163   .0674
    .246   .1351
    .390   .1143
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW14)

ALPHAO(4) =   .027   BETAO (4) =   -.007

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0980
  .010   -.0190
  .020   -.0115
  .040   -.0199
  .086   .0239
  .163   .0295
  .246   .1401
  .390   .1637
  .798   .0000

ALPHAO(4) =   .038   BETAO (5) =   4.112

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0761
  .010   -.0964
  .020   .0469
  .040   .0676
  .086   .0422
  .163   .1104
  .246   .0943
  .390   .3995
  .798   .0000

ALPHAO(4) =   .051   BETAO (6) =   6.174

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0333
  .010   -.0796
  .020   -.0489
  .040   .0697
  .086   .0501
  .163   .0576
  .246   .0253
  .390   .4556
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW14)

ALPHAO(5) =   2.131   BETAO (1) =   -6.166

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.2528
    .010   -.2340
    .020   -.1410
    .040   -.0939
    .086   .0937
    .163   .1095
    .246   .1666
    .390   .0512
    .798   .0000

ALPHAO(5) =   2.132   BETAO (2) =   -2.063

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.2139
    .010   -.1187
    .020   -.0820
    .040   -.0826
    .086   .1236
    .163   .1109
    .246   .1798
    .390   .1453
    .798   .0000

ALPHAO(5) =   2.136   BETAO (3) =   2.064

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.0984
    .010   .0335
    .020   .0617
    .040   .0579
    .086   .0232
    .163   .0895
    .246   .1999
    .390   .3350
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW14)

ALPHAO(5) =   2.148   BETAO (4) =   6.175

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.0384
    .010   -.0616
    .020   .0285
    .040   .1144
    .086   .1175
    .163   .1666
    .246   .1259
    .390   .4925
    .798   .0000

ALPHAO(6) =   4.219   BETAO (1) =   -6.143

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.3001
    .010   -.2586
    .020   -.1424
    .040   -.1175
    .086   .1086
    .163   .1285
    .246   .1785
    .390   .0614
    .798   .0000

ALPHAO(6) =   4.218   BETAO (2) =   -4.089

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.3627
    .010   -.2193
    .020   -.1300
    .040   -.1012
    .086   .1562
    .163   .1479
    .246   .1823
    .390   .1038
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETWI4)

ALPHAO(6) =   4.218   BET.O (3) =   .008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1815
   .010   -.0614
   .020   -.0046
   .040   -.0015
   .086   .2287
   .163   .1198
   .246   .2364
   .390   .2094
   .798   .0000

ALPHAO(6) =   4.217   BETAO (4) =   4.126

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0814
   .010   .1020
   .020   .1370
   .040   .1358
   .086   .0908
   .163   .1559
   .246   .2861
   .390   .4255
   .798   .0000

ALPHAO(6) =   4.218   BETAO (5) =   6.196

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0355
   .010   .0386
   .020   .1772
   .040   .1753
   .086   .1232
   .163   .1828
   .246   .3127
   .390   .4789
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW14)

ALPHAO(7) =   6.327   BETAO (1) =   -4.066

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.4109
     .010   -.2127
     .020   -.1103
     .040   -.0808
     .086   .1634
     .163   .1718
     .246   .2035
     .390   .1153
     .798   .0000

ALPHAO(7) =   6.327   BETAO (2) =   -2.028

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.3503
     .010   -.1454
     .020   -.0811
     .040   -.0727
     .086   .1858
     .163   .1867
     .246   .2289
     .390   .1616
     .798   .0000

ALPHAO(7) =   6.325   BETAO (3) =   .021

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.2499
     .010   -.0667
     .020   -.0076
     .040   -.0067
     .086   .2579
     .163   .1796
     .246   .2383
     .390   .2079
     .798   .0000

IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW14)

ALPHAO(7) =   6.323   BETAO (4) =   2.091

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1357
   .010   .0163
   .020   .0622
   .040   .0603
   .086   .2570
   .163   .1683
   .246   .2558
   .390   .2902
   .798   .0000

ALPHAO(7) =   6.316   BETAO (5) =   4.148

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0552
   .010   .1089
   .020   .1424
   .040   .1378
   .086   .1101
   .163   .2018
   .246   .2835
   .390   .3667
   .798   .0000

IA81A - PRESSURE SOURCE DATA TABULATION

DATE 21 OCT 75

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.

(RETW15)   (02 OCT 74)

PARAMETRIC DATA

REFERENCE DATA

MACH	=	.900	RN/FT	=	2.250
ELV-IB	=	8.000	ELV-OB	=	6.000
RUDDER	=	.000	SPDBRK	=	.000

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.170   BETAO (1) =   -4.069

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0742
.010	.0715
.020	.0792
.040	.0788
.086	.0433
.163	-.0166
.246	-.0185
.390	-.1441
.798	.0000

ALPHAO(1) =   -6.165   BETAO (2) =   -2.034

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0875
.010	.0802
.020	.0892
.040	.0885
.086	.0446
.163	-.0267
.246	-.0154
.390	-.1321
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(1) =   -6.129   BETAO (3) =   .031

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0805
.010   .0636
.020   .0811
.040   .0830
.086   .0340
.163   -.0560
.246   -.0230
.390   -.0997
.798   .0000

ALPHAO(1) =   -6.118   BETAO (4) =   2.093

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0832
.010   .0505
.020   .0770
.040   .0819
.086   .0346
.163   -.0641
.246   .0006
.390   .0028
.798   .0000

ALPHAO(1) =   -6.110   BETAO (5) =   4.138

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0863
.010   .0421
.020   .0731
.040   .0777
.086   .0330
.163   -.0607
.246   .0281
.390   .0478
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(2) =   -4.082   BETAO (1) =   -6.131

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0509
  .010   .0503
  .020   .0644
  .040   .0682
  .086   .0632
  .163   .0160
  .246   .0019
  .390   -.1492
  .798   .0000

ALPHAO(2) =   -4.072   BETAO (2) =   -4.082

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0770
  .010   .0796
  .020   .0864
  .040   .0894
  .086   .0693
  .163   .0178
  .246   .0132
  .390   -.1232
  .798   .0000

ALPHAO(2) =   -4.058   BETAO (3) =   .016

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .1057
  .010   .0963
  .020   .1104
  .040   .1108
  .086   .0675
  .163   -.0157
  .246   .0135
  .390   -.0791
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW15)

ALPHAO(2) =   -4.039   BETAO (4) =   4.120

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .1253
    .010   .0925
    .020   .1111
    .040   .1108
    .086   .0666
    .163   -.0173
    .246   .0673
    .390   .0570
    .798   .0000

ALPHAO(2) =   -4.035   BETAO (5) =   6.171

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .1443
    .010   .1003
    .020   .1197
    .040   .1212
    .086   .0789
    .163   -.0046
    .246   .0892
    .390   .0862
    .798   .0000

ALPHAO(3) =   -2.011   BETAO (1) =   -6.134

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0377
    .010   .0351
    .020   .0559
    .040   .0612
    .086   .0827
    .163   .0457
    .246   .0344
    .390   -.1248
    .798   .0000

                                ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(3) =   -2.000   BETAO (2) =   -2.052

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .0842
   .010   .0978
   .020   .1118
   .040   .1148
   .086   .0982
   .163   .0377
   .246   .0475
   .390   -.1059
   .798   .0000

ALPHAO(3) =   -1.985   BETAO (3) =   2.064

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .1282
   .010   .1290
   .020   .1419
   .040   .1404
   .086   .1047
   .163   .0201
   .246   .0736
   .390   .0357
   .798   .0000

ALPHAO(3) =   -1.973   BETAO (4) =   6.153

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .1697
   .010   .1486
   .020   .1649
   .040   .1634
   .086   .1239
   .163   .0439
   .246   .1292
   .390   .1069
   .798   .0000

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW15)

ALPHAO(4) =   .079   BETAO (1) =   -6.140

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0121
.010   -.0235
.020   .0215
.040   .0314
.086   .0947
.163   .0688
.246   .0574
.390   -.1100
.798   .0000

ALPHAO(4) =   .084   BETAO (2) =   -4.099

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0136
.010   .0199
.020   .0650
.040   .0749
.086   .1112
.163   .0795
.246   .0642
.390   -.1017
.798   .0000

ALPHAO(4) =   .085   BETAO (3) =   -.004

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0743
.010   .1134
.020   .1404
.040   .1450
.086   .1336
.163   .0597
.246   .0742
.390   -.0564
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI5)

ALPHAO(4) =   .097   BETAO (4) =   4.092

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .1337
    .010   .1614
    .020   .1820
    .040   .1828
    .086   .1576
    .163   .0796
    .246   .1298
    .390   .0685
    .798   .0000

ALPHAO(4) =   .102   JETAO (5) =   6.138

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .1612
    .010   .1803
    .020   .1987
    .040   .1998
    .086   .1704
    .163   .0933
    .246   .1548
    .390   .1009
    .798   .0000

ALPHAO(5) =   2.176   BETAO (1) =   -6.134

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.0496
    .010   -.0629
    .020   .0008
    .040   .0206
    .086   .1148
    .163   .0972
    .246   .0900
    .390   -.0900
    .798   .0000

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

                    ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(5) =   2.181   BETAO (2) =   -2.059

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0258
   .010   .0461
   .020   .1000
   .040   .1126
   .086   .1470
   .163   .0939
   .246   .0893
   .390   -.0948
   .798   .0000

ALPHAO(5) =   2.185   BETAO (3) =   2.048

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .0660
   .010   .1359
   .020   .1741
   .040   .1772
   .086   .1791
   .163   .1011
   .246   .1294
   .390   .0354
   .798   .0000

ALPHAO(5) =   2.183   BETAO (4) =   6.140

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .1287
   .010   .1943
   .020   .2258
   .040   .2262
   .086   .2140
   .163   .1371
   .246   .1833
   .390   .1068
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(6) =   4.251   BETAO (1) =   -6.118

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.0823
    .010   -.0947
    .020   -.0106
    .040   .0122
    .086   .1328
    .163   .1248
    .246   .1145
    .390   -.0722
    .798   .0000

ALPHAO(6) =   4.253   BETAO (2) =   -4.076

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1294
    .010   -.0412
    .020   .0434
    .040   .0590
    .086   .1482
    .163   .1326
    .246   .1197
    .390   -.0629
    .798   .0000

ALPHAO(6) =   4.252   BETAO (3) =   .002

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.0401
    .010   .0865
    .020   .1502
    .040   .1600
    .086   .1956
    .163   .1225
    .246   .1240
    .390   -.0381
    .798   .0000

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(6) =   4.253   BETAO (4) =   4.095

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0513
   .010   .1632
   .020   .2140
   .040   .2193
   .086   .2312
   .163   .1575
   .246   .1811
   .390   .0712
   .798   .0000

ALPHAO(6) =   4.245   BETAO (5) =   6.148

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0809
   .010   .1935
   .020   .2406
   .040   .2463
   .086   .2471
   .163   .1718
   .246   .2018
   .390   .0980
   .798   .0000

ALPHAO(7) =   5.304   BETAO (1) =   -4.072

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1636
   .010   -.0640
   .020   .0365
   .040   .0571
   .086   .1522
   .163   .1385
   .246   .1218
   .390   -.0632
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(7) =   5.305   BETAO (2) =   -2.036

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.1388
  .010     .0051
  .020     .0989
  .040     .1163
  .086     .1892
  .163     .1352
  .246     .1269
  .390    -.0754
  .798     .0000
```

ALPHAO(7) =   5.302   BETAO (3) =   .007

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.0760
  .010     .0695
  .020     .1448
  .040     .1623
  .086     .2045
  .163     .269
  .246     .1288
  .390    -.0369
  .798     .0000
```

ALPHAO(7) =   5.302   BETAO (4) =   2.065

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000    -.0224
  .010     .1181
  .020     .1853
  .040     .1974
  .086     .2256
  .163     .1492
  .246     .1652
  .390     .0394
  .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW15)

ALPHAO(7) =   5.298   BETAO (5) =   4.107

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0208
  .010   .1616
  .020   .2183
  .040   .2270
  .086   .2422
  .163   .1688
  .246   .1920
  .390   .0741
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   6.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.246   BETAO (1) =   -4.078

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   -.0078
    .010   .0043
    .020   .0241
    .040   .0312
    .086   .0938
    .163   .0480
    .246   .0662
    .390   -.0607
    .798   .0000

ALPHAO(1) =   -6.234   BETAO (2) =   -2.033

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .0000
    .010   .0146
    .020   .0331
    .040   .0402
    .086   .0980
    .163   .0446
    .246   .0583
    .390   -.0251
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI6)

ALPHAO(1) =   -6.194   BETAO (3) =   .038

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0270
  .010   -.0220
  .020   .0086
  .040   .0174
  .086   .1041
  .163   .0295
  .246   .0481
  .390   .0515
  .798   .0000

ALPHAO(1) =   -6.181   BETAO (4) =   2.103

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0121
  .010   -.0584
  .020   -.0485
  .040   -.0445
  .086   .1100
  .163   .0150
  .246   .0377
  .390   .1486
  .798   .0000

ALPHAO(1) =   -6.169   BETAO (5) =   4.159

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0027
  .010   -.0459
  .020   -.0492
  .040   -.0685
  .086   .1263
  .163   .0217
  .246   .0429
  .390   .2266
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)

ALPHAO(2) =   -4.136   BETAO (1) =   -6.157

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0142
 .010   -.0149
 .020   .0133
 .040   .0224
 .086   .0850
 .163   .0634
 .246   .0863
 .390   -.0896
 .798   .0000

ALPHAO(2) =   -4.125   BETAO (2) =   -4.102

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0182
 .010   -.0009
 .020   .0240
 .040   .0334
 .086   .1034
 .163   .0688
 .246   .0913
 .390   -.0343
 .798   .0000

ALPHAO(2) =   -4.108   BETAO (3) =   .014

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0087
 .010   .0055
 .020   .0382
 .040   .0489
 .086   .1294
 .163   .0590
 .246   .0829
 .390   .0691
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW16)

ALPHAO(2) =   -4.082   BETAO (4) =   4.132

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0304
    .010   -.0204
    .020   -.0336
    .040   -.0543
    .086   .1422
    .163   .0348
    .246   .1124
    .390   .2479
    .798   .0000

ALPHAO(2) =   -4.074   BETAO (5) =   6.189

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0693
    .010   .0174
    .020   .0055
    .040   -.0181
    .086   .1623
    .163   .0545
    .246   .1539
    .390   .3079
    .798   .0000

ALPHAO(3) =   -2.033   BETAO (1) =   -6.165

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.0163
    .010   -.0326
    .020   .0064
    .040   .0186
    .086   .1045
    .163   .0950
    .246   .1186
    .390   -.0599
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)

ALPHAO(3) =   -2.021   BETAO (2) =   -2.073

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0268
  .010   .0106
  .020   .0507
  .040   .0629
  .086   .1516
  .163   .1034
  .246   .1260
  .390   .0170
  .798   .0000

ALPHAO(3) =   -2.004   BETAO (3) =   2.061

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0008
  .010   -.0167
  .020   -.0092
  .040   .0114
  .086   .1681
  .163   .0869
  .246   .1535
  .390   .2111
  .798   .0000

ALPHAO(3) =   -1.987   BETAO (4) =   6.166

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0717
  .010   .0335
  .020   .0176
  .040   -.0048
  .086   .1901
  .163   .0939
  .246   .2213
  .390   .3247
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW16)

ALPHAO(4) =   .070   BETAO (1) =   -6.166

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0581
 .010   -.0735
 .020   -.0090
 .040   .0207
 .086   .1312
 .163   .1282
 .246   .1528
 .390   -.0276
 .798   .0000

ALPHAO(4) =   .076   BETAO (2) =   -4.111

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.1082
 .010   -.0640
 .020   .0146
 .040   .0369
 .086   .1621
 .163   .1432
 .246   .1658
 .390   .0254
 .798   .0000

ALPHAO(4) =   .084   BETAO (3) =   -.007

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0604
 .010   .0096
 .020   .0637
 .040   .0816
 .086   .1941
 .163   .1346
 .246   .1677
 .390   .1167
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)

ALPHAO(4) =   .099   BETAO (4) =   4.099

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0130
   .010   .0134
   .020   .0002
   .040   -.0106
   .086   .2238
   .163   .1512
   .246   .2413
   .390   .2964
   .798   .0000

ALPHAO(4) =   .104   BETAO (5) =   6.156

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0406
   .010   .0451
   .020   .0316
   .040   .0151
   .086   .2363
   .163   .1613
   .246   .2785
   .390   .3467
   .798   .0000

ALPHAO(5) =   2.179   BETAO (1) =   -6.160

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1032
   .010   -.1246
   .020   -.0345
   .040   -.0021
   .086   .1525
   .163   .1609
   .246   .1842
   .390   -.0068
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW16)

ALPHAO(5) =   2.183   BETAO (2) =   -2.076

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1679
    .010   -.0566
    .020   .0371
    .040   .0631
    .086   .2128
    .163   .1710
    .246   .1889
    .390   .0516   .
    .798   .0000

ALPHAO(5) =   2.194   BETAO (3) =   2.052

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1039
    .010   -.0155
    .020   .0741
    .040   .0981
    .086   .2454
    .163   .1849
    .246   .2366
    .390   .2376
    .798   .0000

ALPHAO(5) =   2.199   BETAO (4) =   6.158

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0019
    .010   .0471
    .020   .0411
    .040   .0296
    .086   .2785
    .163   .2200
    .246   .3187
    .390   .3578
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)

ALPHAO(6) =   4.246   BETAO (1) =   -6.141

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000    -.1305
   .010    -.1508
   .020    -.0414
   .040    -.0070
   .086     .1658
   .163     .1820
   .246     .2016
   .390     .0055
   .798     .0000
```

ALPHAO(6) =   4.252   BETAO (2) =   -4.091

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000    -.2132
   .010    -.1522
   .020    -.0179
   .040     .0159
   .086     .1891
   .163     .1769
   .246     .1942
   .390     .0365
   .798     .0000
```

ALPHAO(6) =   4.259   BETAO (3) =   -.003

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000    -.2388
   .010    -.0524
   .020     .0526
   .040     .0797
   .086     .2507
   .163     .2007
   .246     .2236
   .390     .1246
   .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)

ALPHAO(6) =   4.261   BETAO (4) =   4.109

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.1246
    .010   -.0064
    .020   .0584
    .040   .1144
    .086   .3002
    .163   .2469
    .246   .3053
    .390   .3009
    .798   .0000

ALPHAO(6) =   4.259   BETAO (5) =   6.170

SECTION (1)RIGHT WING BOTTOM   _   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.0800
    .010   .0311
    .020   .0591
    .040   .0939
    .086   .3154
    .163   .2604
    .246   .3326
    .390   .3357
    .798   .0000

ALPHAO(7) =   6.364   BETAO (1) =   -4.074

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
    .000   -.2497
    .010   -.1701
    .020   -.0157
    .040   .0166
    .086   .1959
    .163   .1868
    .246   .2060
    .390   .0506
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW16)

ALPHAO(7) =   6.367   BETAO (2) =   -2.043

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.3723
  .010   -.1358
  .020   .0203
  .040   .0574
  .086   .2327
  .163   .2095
  .246   .2236
  .390   .0621
  .798   .0000

ALPHAO(7) =   6.367   BETAO (3) =   .008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.4336
  .010   -.1343
  .020   .0342
  .040   .0710
  .086   .2695
  .163   .2239
  .246   .2364
  .390   .1182
  .798   .0000

ALPHAO(7) =   6.364   BETAO (4) =   2.073

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.3598
  .010   -.0737
  .020   .0545
  .040   .0879
  .086   .3065
  .163   .2518
  .246   .2755
  .390   .2141
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW16)

ALPHAO(7) =   6.359   BETAO (5) =   4.124

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.2463
  .010   -.0342
  .020   .1079
  .0'3   .1383
  .086   .3166
  .163   .2684
  .246   .3031
  .390   .2660
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW17)   (19 OCT 74)

                    REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .900   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   10.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.178   BETAO (1) =   -4.055

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .0838
    .010   .0788
    .020   .0864
    .040   .0860
    .086   .0486
    .163   -.0090
    .246   -.0094
    .390   -.1335
    .798   .0000

ALPHAO(1) =   -6.167   BETAO (2) =   -2.018

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .0864
    .010   .0765
    .020   .0861
    .040   .0861
    .086   .0420
    .163   -.0286
    .246   -.0159
    .390   -.1356
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(1) =   -6.142   BETAO (3) =   .046

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .0825
  .010     .0671
  .020     .0861
  .040     .0861
  .086     .0335
  .163    -.0530
  .246    -.0206
  .390    -.0930
  .798     .0000
```

ALPHAO(1) =   -6.130   BETAO (4) =   2.104

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .0816
  .010     .0494
  .020     .0750
  .040     .0772
  .086     .0307
  .163    -.0638
  .246    -.0017
  .390     .0025
  .798     .0000
```

ALPHAO(1) =   -6.123   BETAO (5) =   4.151

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
  .000     .0859
  .010     .0417
  .020     .0724
  .040     .0766
  .086     .0352
  .163    -.0590
  .246     .0314
  .390     .0519
  .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(2) =   -4.089   BETAO (1) =   -6.119

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0588
   .010   .0611
   .020   .0694
   .040   .0690
   .086   .0645
   .163   .0200
   .246   .0097
   .390   -.1415
   .798   .0000

ALPHAO(2) =   -4.079   BETAO (2) =   -4.073

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0768
   .010   .0784
   .020   .0895
   .040   .0879
   .086   .0674
   .163   .0172
   .246   .0107
   .390   -.1224
   .798   .0000

ALPHAO(2) =   -4.065   BETAO (3) =   .030

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1049
   .010   .0991
   .020   .1124
   .040   .1090
   .086   .0652
   .163   -.0180
   .246   .0132
   .390   -.0788
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(2) =   -4.044   BETAO (4) =   4.123

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   .1277
    .010   .0923
    .020   .1099
    .040   .1087
    .086   .0666
    .163   -.0195
    .246   .0636
    .390   .0574
    .798   .0000

ALPHAO(2) =   -4.041   BETAO (5) =   6.175

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   .1471
    .010   .1019
    .020   .1229
    .040   .1221
    .086   .0795
    .163   -.0031
    .246   .0917
    .390   .0962
    .798   .0000

ALPHAO(3) =   -2.003   BETAO (1) =   -6.127

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   .0341
    .010   .0306
    .020   .0502
    .040   .0563
    .086   .0755
    .163   .0371
    .246   .0275
    .390   -.1281
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW17)

ALPHAO(3) = -1.993   BETAO (2) = -2.044

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0867
   .010   .0998
   .020   .1135
   .040   .1135
   .086   .0971
   .163   .0373
   .246   .0430
   .390   -.1050
   .798   .0000

ALPHAO(3) = -1.979   BETAO (3) =   2.069

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1309
   .010   .1295
   .020   .1406
   .040   .1402
   .086   .1036
   .163   .0203
   .246   .0761
   .390   .0348
   .798   .0000

ALPHAO(3) = -1.967   BETAO (4) =   6.153

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1622
   .010   .1479
   .020   .1605
   .040   .1609
   .086   .1234
   .163   .0430
   .246   .1230
   .390   .1019
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(4) =   .077   BETAO (1) =   -6.130

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0094
   .010   -.0258
   .020   .0203
   .040   .0317
   .086   .0931
   .163   .0717
   .246   .0603
   .390   -.1115
   .798   .0000

ALPHAO(4) =   .082   BETAO (2) =   -4.088

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0096
   .010   .0214
   .020   .0645
   .040   .0733
   .086   .1099
   .163   .0820
   .246   .0641
   .390   -.1006
   .798   .0000

ALPHAO(4) =   .083   BETAO (3) =   .004

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   .0778
   .010   .1152
   .020   .1412
   .040   .1454
   .086   .1366
   .163   .0588
   .246   .0763
   .390   -.0557
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(4) =   .096   BETAO (4) =   4.096

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1352
   .010   .1584
   .020   .1794
   .040   .1813
   .086   .1554
   .163   .0768
   .246   .1272
   .390   .0700
   .798   .0000

ALPHAO(4) =   .101   BETAO (5) =   6.143

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1606
   .010   .1820
   .020   .1939
   .040   .1970
   .086   .1698
   .163   .0940
   .246   .1560
   .390   .1013
   .798   .0000

ALPHAO(5) =   2.172   BETAO (1) =   -6.124

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0476
   .010   -.0633
   .020   .0038
   .040   .0202
   .086   .1167
   .163   .1006
   .246   .0926
   .390   -.0858
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(5) =   2.177   BETAO (2) =   -2.050

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000    -.0280
   .010     .0512
   .020     .1040
   .040     .1131
   .086     .1508
   .163     .1014
   .246     .0953
   .390    -.0905
   .798     .0000
```

ALPHAO(5) =   2.180   BETAO (3) =   2.054

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000     .0629
   .010     .1373
   .020     .1753
   .040     .1787
   .086     .1821
   .163     .1062
   .246     .1305
   .390     .0405
   .798     .0000
```

ALPHAO(5) =   2.179   BETAO (4) =   6.141

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000     .1277
   .010     .1886
   .020     .2169
   .040     .2215
   .086     .2100
   .163     .1312
   .246     .1771
   .390     .0999
   .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(6) =   4.252   BETAO (1) =   -6.110

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
 X/CW
   .000    -.0835
   .010    -.0907
   .020    -.0098
   .040     .0131
   .086     .1305
   .163     .1252
   .246     .1153
   .390    -.0720
   .798     .0000
```

ALPHAO(6) =   4.257   BETAO (2) =   -4.071

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
 X/CW
   .000    -.1217
   .010    -.0412
   .020     .0456
   .040     .0634
   .086     .1532
   .163     .1354
   .246     .1187
   .390    -.0647
   .798     .0000
```

ALPHAO(6) =   4.252   BETAO (3) =   .005

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
 X/CW
   .000    -.0354
   .010     .0829
   .020     .1515
   .040     .1633
   .086     .1982
   .163     .1261
   .246     .1254
   .390    -.0332
   .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW17)

ALPHAO(6) =   4.251   BETAO (4) =   4.101

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000      .0497
   .010      .1593
   .020      .2094
   .040      .2167
   .086      .2278
   .163      .1524
   .246      .1815
   .390      .0702
   .798      .0000
```

ALPHAO(6) =   4.247   BETAO (5) =   6.153

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000      .0792
   .010      .1924
   .020      .2353
   .040      .2410
   .086      .2422
   .163      .1702
   .246      .2031
   .390      .0967
   .798      .0000
```

ALPHAO(7) =   6.350   BETAO (1) =   -4.053

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
  X/CW
   .000     -.1858
   .010     -.0765
   .020      .0289
   .040      .0532
   .086      .1700
   .163      .1590
   .246      .1396
   .390     -.0465
   .798      .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW17)

ALPHAO(7) =   6.348   BETAO (2) =   -2.025

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.2028
 .010   -.0227
 .020   .0837
 .040   .1114
 .086   .1962
 .163   .1411
 .246   .1323
 .390   - 0721
 .798   .0000

ALPHAO(7) =   6.344   BETAO (3) =   .018

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.1321
 .010   .0425
 .020   .1397
 .040   .1583
 .086   .2193
 .163   .1438
 .246   .1423
 .390   -.0302
 .798   .0000

ALPHAO(7) =   6.340   BETAO (4) =   2.076

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0712
 .010   .1025
 .020   .1837
 .040   .1993
 .086   .2400
 .163   .1600
 .246   .1707
 .390   .0366
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW17)

ALPHAO(7) =   6.335   BETAO (5) =   4.123

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
 .000   -.0277
 .010   .1440
 .020   .2124
 .040   .2216
 .086   .2499
 .163   .1730
 .246   .1910
 .390   .0598
 .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI8)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   10.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.223   BETAO (1) =   .032

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0275
  .010   -.0272
  .020   .0052
  .040   .0119
  .086   .1036
  .163   .0264
  .246   .0429
  .390   .0436
  .798   .0000

ALPHAO(2) =   -4.129   BETAO (1) =   -4.089

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0185
  .010   .0004
  .020   .0247
  .040   .0331
  .086   .1042
  .163   .0678
  .246   .0904
  .390   -.0343
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETWIB)

ALPHAO(2) =   -4.111   BETAO (2) =   .021

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
   X/CW
    .000   -.0202
    .010   -.0110
    .020    .0204
    .040    .0315
    .086    .1201
    .163    .0491
    .246    .0789
    .390    .0731
    .798    .0000
```

ALPHAO(2) =   -4.085   BETAO (3) =   4.129

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
   X/CW
    .000    .0345
    .010   -.0103
    .020   -.0245
    .040   -.0474
    .086    .1500
    .163    .0427
    .246    .1237
    .390    .2546
    .798    .0000
```

ALPHAO(3) =   .045   BETAO (1) =   -6.157

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
   X/CW
    .000   -.0497
    .010   -.0714
    .020   -.0124
    .040    .0096
    .086    .1303
    .163    .1276
    .246    .1523
    .390   -.0282
    .798    .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWIB)

ALPHAO(3) =   .049   BETAO (2) =   -4.107

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
   X/CW
    .000   -.1091
    .010   -.0651
    .020    .0136
    .040    .0368
    .086    .1607
    .163    .1452
    .246    .1685
    .390    .0271
    .798    .0000
```

ALPHAO(3) =   .052   BETAO (3) =   -.012

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
   X/CW
    .000   -.0626
    .010    .0063
    .020    .0591
    .040    .0770
    .086    .1887
    .163    .1285
    .246    .1644
    .390    .1210
    .798    .0000
```

ALPHAO(3) =   .069   BETAO (4) =   5.104

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
   X/CW
    .000    .0145
    .010    .0118
    .020   -.0018
    .040   -.0150
    .086    .2186
    .163    .1457
    .246    .2397
    .390    .2966
    .798    .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETWI8)

ALPHAO(3) =   .076   BETAO (5) =   6.162

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   .0439
    .010   .0443
    .020   .0318
    .040   .0149
    .086   .2323
    .163   .1561
    .246   .2746
    .390   .3447
    .798   .0000

ALPHAO(4) =   4.250   BETAO (1) =   -4.085

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.2167
    .010   -.1496
    .020   -.0129
    .040   .0178
    .086   .1893
    .163   .1758
    .246   .1947
    .390   .0377
    .798   .0000

ALPHAO(4) =   4.253   BETAO (2) =   .000

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.2361
    .010   -.0538
    .020   .0536
    .C40   .0804
    .086   .2501
    .163   .1972
    .246   .2213
    .390   .1285
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWIB)

ALPHAO(4) =   4.255   BETAO (3) =   4.115

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.1296
     .010   -.0127
     .020   .0543
     .040   .1065
     .086   .2967
     .163   .2432
     .246   .2998
     .390   .2971
     .798   .0000

ALPHAO(5) =   6.356   BETAO (1) =   .011

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.4398
     .010   -.1140
     .020   .0371
     .040   .0742
     .086   .2739
     .163   .2243
     .246   .2378
     .390   .1215
     .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI9)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.250   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   10.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -4.169   BETAO (1) =   -4.086

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1072
  .010   -.0990
  .020   -.0662
  .040   -.0569
  .086   .0520
  .163   .0358
  .246   .0673
  .390   -.0350
  .798   .0000

ALPHAO(1) =   -4.149   BETAO (2) =   .018

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1433
  .010   -.0919
  .020   -.0929
  .040   -.0992
  .086   .0414
  .163   .0325
  .246   .0837
  .390   .0567
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW19)

ALPHAO(1) =   -4.104   BETAO (3) =   4.148

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1520
.010   -.2631
.020   -.0102
.040   .0121
.086   -.0628
.163   -.0230
.246   .1122
.390   .2923
.798   .0000

ALPHAO(2) =   .052   BETAO (1) =   -4.119

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.1365
.010   -.0950
.020   -.0441
.040   -.0298
.086   .1091
.163   .1034
.246   .1492
.390   .0614
.798   .0000

ALPHAO(2) =   .055   BETAO (2) =   -.007

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0672
.010   -.0409
.020   -.0332
.040   -.0377
.086   .1311
.163   .1244
.246   .1617
.390   .1732
.798   .0000

ARCII-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETWI9)

ALPHAO(2) =   .067   BETAO (3) =   4.107

SECTION (I)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.1142
     .010   .0755
     .020   .0799
     .040   .0694
     .086   .0053
     .163   .0235
     .246   .1918
     .390   .3742
     .798   .0000

ALPHAO(3) =   4.242   BETAO (1) =   -4.090

SECTION (I)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.2740
     .010   -.1721
     .020   -.0524
     .040   -.0228
     .086   .1559
     .163   .1562
     .246   .1922
     .390   .0808
     .798   .0000

ALPHAO(3) =   4.243   BETAO (2) =   .004

SECTION (I)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

    X/CW
     .000   -.2371
     .010   -.1055
     .020   -.0559
     .040   -.0495
     .086   .1983
     .163   .1856
     .246   .2251
     .390   .1922
     .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW19)

ALPHAO(3) =   4.242   BETAO (3) =   4.125

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0517
.010   .0593
.020   .0765
.040   .0699
.086   .2811
.163   .1459
.246   .2761
.390   .3820
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW20)   (02 OCT 74)

                    REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.400   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   .017   BETAO (1) =   -6.173

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.2039
    .010   -.2188
    .020   -.1765
    .040   -.1467
    .086   .0546
    .163   .0732
    .246   .1142
    .390   .0095
    .798   .0000

ALPHAO(1) =   .018   BETAO (2) =   -4.117

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1573
    .010   -.1461
    .020   -.1259
    .040   -.1234
    .086   .0868
    .163   .0815
    .246   .1252
    .390   .0719
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW20)

ALPHAO(1) =   .024   BETAO (3) =   -2.072

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0996
   .010   -.0690
   .020   -.0562
   .040   -.0569
   .086   .0617
   .163   .0691
   .246   .1361
   .390   .1160
   .798   .0000

ALPHAO(1) =   .023   BETAO (4) =   -.006

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.0816
   .010   -.0084
   .020   -.0035
   .040   -.0112
   .086   .0281
   .163   .0377
   .246   .1393
   .390   .1666
   .798   .0000

ALPHAO(1) =   .030   BETAO (5) =   2.059

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1068
   .010   .0060
   .020   .0547
   .040   .0540
   .086   .0042
   .163   .0643
   .246   .1523
   .390   .2914
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW20)

ALPHAO(1) =   .032   BETAO (6) =   4.116

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000   -.0702
 .010   -.0912
 .020    .0545
 .040    .0724
 .086    .0467
 .163    .1177
 .246    .0978
 .390    .3984
 .798    .0000
```

ALPHAO(1) =   .044   BETAO (7) =   6.175

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000   -.0290
 .010   -.0756
 .020   -.0449
 .040    .0724
 .086    .0581
 .163    .0680
 .246    .0237
 .390    .4569
 .798    .0000
```

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW21)   (03 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF	= 2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT	
LREF	= 1297.0000 INCHES	YMRP =	.0000 IN. YT	
BREF	= 1297.0000 INCHES	ZMRP =	400.0000 IN. ZT	
SCALE	= .0300 SCALE			

MACH	= 1.250	RN/FT =	2.250
ELV-IB	= .000	ELV-OB =	.000
RUDDER	= .000	SPDBRK =	.000

ALPHAO(1) = .038   BETAO (1) = -6.160

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1319
.010	-.1408
.020	-.0904
.040	-.0739
.086	.0962
.163	.0987
.246	.1446
.390	.0018
.798	.0000

ALPHAO(1) = .045   BETAO (2) = -4.114

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1348
.010	-.0916
.020	-.0395
.040	-.0299
.086	.1066
.163	.1025
.246	.1428
.390	.0561
.798	.0000

ARCII-019 IA8I LVAP(ELHL SEALED)   RT. WING BOT.   (RETW21)

ALPHAO(1) =   .047   BETAO (3) =   -2.070

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1049
.010	-.0672
.020	-.0444
.040	-.0371
.086	.1161
.163	.1098
.246	.1475
.390	.0939
.798	.0000

ALPHAO(1) =   .054   BETAO (4) =   -.008

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0718
.010	-.0420
.020	-.0338
.040	-.0379
.086	.1259
.163	.1243
.246	.1612
.390	.1672
.798	.0000

ALPHAO(1) =   .082   BETAO (5) =   2.056

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0432
.010	.0362
.020	.0397
.040	.0261
.086	.1593
.163	.0387
.246	.1716
.390	.2870
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW21)

ALPHAO(1) =   .087   BETAO (6) =   4.111

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.1146
    .010   .0756
    .020   .0801
    .040   .0699
    .086   .0077
    .163   .0216
    .246   .1906
    .390   .3732
    .798   .0000

ALPHAO(1) =   .091   BETAO (7) =   6.170

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   -.0899
    .010   .0643
    .020   .1334
    .040   .1208
    .066   .0040
    .163   .0592
    .246   .2032
    .390   .4294
    .798   .0000

ARC11-019 IA81 LVAP(E_HL SEALED) RT. WING BOT.   (RETW22)   (03 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   .039   BETAO (1) =   -6.151

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0628
   .010   -.0865
   .020   -.0192
   .040   -.0016
   .086   .1236
   .163   .1222
   .246   .1449
   .390   -.0378
   .798   .0000

ALPHAO(1) =   .042   BETAO (2) =   -4.101

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.1045
   .010   -.0569
   .020   .0178
   .040   .0367
   .086   .1609
   .163   .1427
   .246   .1662
   .390   .0232
   .798   .0000

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW22)

ALPHAO(1) =   .047   BETAO (3) =   -2.062

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0759
.010   -.0114
.020   .0509
.040   .0701
.086   .1867
.163   .1388
.246   .1597
.390   .0394
.798   .0000

ALPHAO(1) =   .053   BETAO (4) =   -.007

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0586
.010   .0093
.020   .0642
.040   .0791
.086   .1971
.163   .1350
.246   .1677
.390   .1192
.798   .0000

ALPHAO(1) =   .079   BETAO (5) =   2.058

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0295
.010   -.0043
.020   .0375
.040   .0688
.086   .2178
.163   .1495
.246   .2124
.390   .2393
.798   .0000

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW22)

ALPHAO(1) =   .083   BETAO (6) =   4.107

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0137
.010	.0143
.020	.0008
.040	-.0117
.086	.2238
.163	.1510
.246	.2444
.390	.2991
.798	.0000

ALPHAO(1) =   .090   BETAO (7) =   6.163

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	.0396
.010	.0432
.020	.0297
.040	.0117
.086	.2312
.163	.1558
.246	.2738
.390	.3428
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW23)   (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   1.400   RN/FT =   2.250
ELV-IB =   .000   ELV-OB =   .000
RUDDER =   .000   SPDBRK =   .000

BETAO (1) =   .033   ALPHAO(1) =   -6.272

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0969
.010	-.0725
.020	-.0344
.040	-.0375
.086	-.0666
.163	-.0824
.246	.0046
.390	.0483
.798	.0000

BETAO (1) =   .011   ALPHAO(2) =   -4.160

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0858
.010	-.0445
.020	-.0145
.040	-.0210
.086	-.0405
.163	-.0637
.246	.0569
.390	.0937
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW23)

BETAO (1) =   -.007   ALPHAO(3) =   -2.069

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0867
.010	-.0168
.020	-.0038
.040	-.0134
.086	-.0053
.163	-.0227
.246	.1036
.390	.1309
.798	.0000

BETAO (1) =   -.022   ALPHAO(4) =   .024

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0847
.010	-.0122
.020	-.0076
.040	-.0162
.086	.0210
.163	.0340
.246	.1363
.390	.1617
.798	.0000

BETAO (1) =   -.018   ALPHAO(5) =   2.134

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1260
.010	-.0407
.020	-.0224
.040	-.0233
.086	.1037
.163	.0919
.246	.2038
.390	.2051
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW23)

BETAO (1) =   -.008   ALPHAO(6) =   4.218

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.1842
.010	-.0591
.020	-.0064
.040	-.0009
.086	.2333
.163	.1110
.246	.2377
.390	.2132
.798	.0000

BETAO (1) =   -.002   ALPHAO(7) =   5.273

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.2130
.010	-.0532
.020	-.0030
.040	-.0030
.086	.2504
.163	.1427
.246	.2327
.390	.2098
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW24)   (03 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   1.250   RN/FT =   2.250
ELV-IB =   .000   ELV-OB =   .000
RUDDER =   .000   SPDBRK =   .000

BETAO (1) =   .028   ALPHAO(1) =   -6.248

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1733
   .010   -.1059
   .020   -.1069
   .040   -.1145
   .086   -.0044
   .163   -.0095
   .246   .0628
   .390   .0219
   .798   .0000

BETAO (1) =   .001   ALPHAO(2) =   -4.131

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   -.1424
   .010   -.0923
   .020   -.0913
   .040   -.0986
   .086   .0361
   .163   .0386
   .246   .0847
   .390   .0513
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW24)

BETAO (1) =   -.012   ALPHAO(3) =   -2.038

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0747
   .010   -.0518
   .020   -.0503
   .040   -.0582
   .086   .0827
   .163   .0853
   .246   .1186
   .390   .1132
   .798   .0000

BETAO (1) =   -.024   ALPHAO(4) =   .059

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0690
   .010   -.0397
   .020   -.0315
   .040   -.0350
   .086   .1284
   .163   .1284
   .246   .1623
   .390   .1690
   .798   .0000

BETAO (1) =   -.019   ALPHAO(5) =   2.162

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.1385
   .010   -.0628
   .020   -.0380
   .040   -.0403
   .086   .1681
   .163   .1646
   .246   .1973
   .390   .1875
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW24)

BETAO (1) =   -.013   ALPHAO(6) =   4.248

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.2518
     .010   -.1172
     .020   -.0674
     .040   -.0569
     .086   .1987
     .163   .1898
     .246   .2291
     .390   .1879
     .798   .0000

BETAO (1) =   .001   ALPHAO(7) =   6.352

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.3461
     .010   -.1336
     .020   -.0268
     .040   .0168
     .086   .2243
     .163   .2151
     .246   .2418
     .390   .1757
     .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW25)   (03 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

BETAO (1) =   .018   ALPHAO(1) =   -6.220

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0360
.010	-.0322
.020	-.0011
.040	.0056
.086	.0981
.163	.0232
.246	.0455
.390	.0485
.798	.0000

BETAO (1) =   .000   ALPHAO(2) =   -4.109

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW	
.000	-.0130
.010	-.0012
.020	.0298
.040	.0406
.086	.1236
.163	.0524
.246	.0771
.390	.0676
.798	.0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW25)

BETAO (1) =   -.015   ALPHAO(3) =   -2.020

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0265
   .010   .0050
   .020   .0418
   .040   .0560
   .086   .1527
   .163   .0881
   .246   .1185
   .390   .0959
   .798   .0000

BETAO (1) =   -.024   ALPHAO(4) =   .066

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0608
   .010   .0065
   .020   .0606
   .040   .0765
   .086   .1924
   .163   .1302
   .246   .1647
   .390   .1201
   .798   .0000

BETAO (1) =   -.019   ALPHAO(5) =   2.167

  SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.1329
   .010   -.0089
   .020   .0618
   .040   .0818
   .086   .2228
   .163   .1660
   .246   .1978
   .390   .1268
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW25)

BETAO (1) =   -.015   ALPHAO(6) =   4.256

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.2310
     .010   -.0509
     .020   .0554
     .040   .0817
     .086   .2522
     .163   .1989
     .246   .2218
     .390   .1303
     .798   .0000

BETAO (1) =   .000   ALPHAO(7) =   6.355

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
     .000   -.4452
     .010   -.1370
     .020   .0283
     .040   .0625
     .086   .2670
     .163   .2234
     .246   .2319
     .390   .1159
     .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW26)   (02 OCT 74)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .900   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-I8 =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAO(1) =   -6.182   BETAO (1) =   -4.055

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .0776
    .010   .0765
    .020   .0806
    .040   .0806
    .086   .0430
    .163   -.0162
    .246   -.0223
    .390   -.1517
    .798   .0000

ALPHAO(1) =   -6.173   BETAO (2) =   -2.019

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
    .000   .0855
    .010   .0750
    .020   .0844
    .040   .0852
    .086   .0440
    .163   -.0315
    .246   -.0202
    .390   -.1436
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW26)

ALPHAO(1) =   -6.160   BETAO (3) =   .037

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0711
    .010   .0588
    .020   .0752
    .040   .0748
    .086   .0243
    .163   -.0629
    .246   -.0307
    .390   -.1091
    .798   .0000

ALPHAO(1) =   -6.132   BETAO (4) =   2 107

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0831
    .010   .0470
    .020   .0736
    .040   .0778
    .086   .0296
    .163   -.0693
    .246   -.0057
    .390   -.0003
    .798   .0000

ALPHAO(1) =   -6.123   BETAO (5) =   4.151

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

   X/CW
    .000   .0787
    .010   .0322
    .020   .0650
    .040   .0696
    .086   .0299
    .163   -.0678
    .246   .0211
    .390   .0387
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW26)

ALPHAO(2) =   -4.098   BETAO (1) =   -6.117

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0571
.010   .0596
.020   .0694
.040   .0717
.086   .0626
.163   .0184
.246   .0067
.390   -.1560
.798   .0000

ALPHAO(2) =   -4.086   BETAO (2) =   -4.069

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0735
.010   .0714
.020   .0783
.040   .0791
.086   .0596
.163   .0078
.246   -.0026
.390   -.1429
.798   .0000

ALPHAO(2) =   -4.071   BETAO (3) =   .025

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .0986
.010   .0889
.020   .1011
.040   .1027
.086   .0576
.163   -.0299
.246   .0048
.390   -.0903
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW26)

ALPHAO(2) =   -4.050   BETAO (4) =   4.127

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000     .1261
 .010     .0876
 .020     .1086
 .040     .1060
 .086     .0667
 .163    -.0207
 .246     .0613
 .390     .0552
 .798     .0000
```

ALPHAO(2) =   -4.048   BETAO (5) =   6.181

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000     .1398
 .010     .0994
 .020     .1203
 .040     .1210
 .086     .0758
 .163    -.0067
 .246     .0914
 .390     .0937
 .798     .0000
```

ALPHAO(3) =   -2.011   BETAO (1) =   -6.126

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

```
X/CW
 .000     .0335
 .010     .0325
 .020     .0539
 .040     .0599
 .086     .0778
 .163     .0390
 .246     .0245
 .390    -.1438
 .798     .0000
```

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RLTW26)

ALPHAO(3) =   -1.998   BETAO (2) =   -2.045

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .0852
   .010   .0985
   .020   .1118
   .040   .1144
   .086   .0977
   .163   .0402
   .246   .0433
   .390   -.1157
   .798   .0000

ALPHAO(3) =   -1.984   BETAO (3) =   2.071

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1261
   .010   .1246
   .020   .1387
   .040   .1375
   .086   .0986
   .163   .0144
   .246   .0697
   .390   .0297
   .798   .0000

ALPHAO(3) =   -1.975   BETAO (4) =   6.155

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
   .000   .1692
   .010   .1468
   .020   .1605
   .040   .1624
   .086   .1202
   .163   .0430
   .246   .1267
   .390   .1046
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW26)

ALPHAO(4) =   .071   BETAO (1) =   -6.134

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0145
  .010   -.0263
  .020   .0137
  .040   .0270
  .086   .0901
  .163   .0620
  .246   .0525
  .390   -.1259
  .798   .0000

ALPHAO(4) =   .076   BETAO (2) =   -4.088

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0134
  .010   .0179
  .020   .0616
  .040   .0707
  .086   .1060
  .163   .0718
  .246   .0570
  .390   -.1140
  .798   .0000

ALPHAO(4) =   .079   BETAO (3) =   .002

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0740
  .010   .1135
  .020   .1390
  .040   .1390
  .086   .1295
  .163   .0541
  .246   .0652
  .390   -.0681
  .798   .0000

ALPHAO(4) =   .084   BETAO (4) =   4.101

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .1308
.010   .1642
.020   .1823
.040   .1827
.086   .1604
.163   .0829
.246   .1328
.390   .0761
.798   .0000

ALPHAO(4) =   .089   BETAO (5) =   6.149

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   .1593
.010   .1836
.020   .1984
.040   .1972
.086   .1677
.163   .0926
.246   .1574
.390   .1059
.798   .0000

ALPHAO(5) =   2.166   BETAO (1) =   -6.124

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
.000   -.0539
.010   -.0648
.020   -.0023
.040   .0130
.086   .1064
.163   .0935
.246   .0805
.390   -.1083
.798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW26)

ALPHAO(5) =   2.174   BETAO (2) =   -2.053

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0324
  .010   .0455
  .020   .1004
  .040   .1137
  .086   .1440
  .163   .0944
  .246   .0876
  .390   -.1055
  .798   .0000

ALPHAO(5) =   2.176   BETAO (3) =   2.058

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .0695
  .010   .1347
  .020   .1713
  .040   .1747
  .086   .1739
  .163   .0997
  .246   .1264
  .390   .0301
  .798   .0000

ALPHAO(5) =   2.176   BETAO (4) =   6.147

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   .1325
  .010   .1928
  .020   .2175
  .040   .2229
  .086   .2095
  .163   .1327
  .246   .1772
  .390   .0993
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW26)

ALPHAO(6) =   4.242   BETAO (1) =   -6.110

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0813
   .010   -.0929
   .020   -.0101
   .040   .0099
   .086   .1271
   .163   .1218
   .246   .1124
   .390   -.0899
   .798   .0000

ALPHAO(6) =   4.246   BETAO (2) =   -4.074

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.1221
   .010   -.0472
   .020   .0389
   .040   .0613
   .086   .1505
   .163   .1296
   .246   .1099
   .390   -.0787
   .798   .0000

ALPHAO(6) =   4.244   BETAO (3) =   .001

 SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

  X/CW
   .000   -.0422
   .010   .0800
   .020   .1475
   .040   .1588
   .086   .1918
   .163   .1156
   .246   .1186
   .390   -.0444
   .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW26)

ALPHAO(6) =   4.243   BETAO (4) =   4.105

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   .0484
    .010   .1596
    .020   .2090
    .040   .2166
    .086   .2269
    .163   .1516
    .246   .1774
    .390   .0710
    .798   .0000

ALPHAO(6) =   4.240   BETAO (5) =   6.155

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   .0819
    .010   .1930
    .020   .2367
    .040   .2413
    .086   .2439
    .163   .1713
    .246   .2017
    .390   .0960
    .798   .0000

ALPHAO(7) =   6.337   BETAO (1) =   -4.058

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
    .000   -.1919
    .010   -.0821
    .020   .0288
    .040   .0520
    .086   .1619
    .163   .1482
    .246   .1322
    .390   -.0673
    .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED) RT. WING BOT.   (RETW26)

ALPHAO(7) =   6.337   BETAO (2) =   -2.026

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1959
  .010   -.0220
  .020   .0900
  .040   .1102
  .086   .1934
  .163   .1383
  .246   .1288
  .390   -.0836
  .798   .0000

ALPHAO(7) =   6.335   BETAO (3) =   .015

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.1306
  .010   .0448
  .020   .1403
  .040   .1592
  .086   .2179
  .163   .1414
  .246   .1369
  .390   -.0332
  .798   .0000

ALPHAO(7) =   6.332   BETAO (4) =   2.074

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0696
  .010   .1026
  .020   .1848
  .040   .1958
  .086   .2353
  .163   .1576
  .246   .1682
  .390   .0351
  .798   .0000

ARC11-019 IA81 LVAP(ELHL SEALED)   RT. WING BOT.   (RETW26)

ALPHAO(7) =   6.327   BETAO (5) =   4.123

SECTION (1)RIGHT WING BOTTOM   DEPENDENT VARIABLE CP

Y/BW   .3640

X/CW
  .000   -.0227
  .010   .1404
  .020   .2128
  .040   .2231
  .086   .2477
  .163   .1707
  .246   .1851
  .390   .0580
  .798   .0000

ARC11-019 IA81 LVAP(SBHL UNSEALD) SRM BOOSTER   (RETS01)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

```
SREF  =  2690.0000 SQ.FT.   XMRP  =   976.0000 IN. XT         MACH    =   1.100   RN/FT  =    3.000
LREF  =  1297.0000 INCHES   YMRP  =      .0000 IN. YT         ELV-IB  =    .000   ELV-OB =     .000
BREF  =  1297.0000 INCHES   ZMRP  =   400.0000 IN. ZT         RUDDER  =    .000   SPDBRK =   55.000
SCALE =      .0300 SCALE
```

BETAL (1) =   .216   ALPHAL(1) =   -6.825

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2901	.2079	.1046	-.6893	-.5418	-.2155	-.1180	-.1114	-.1228	-.0077	.2369	.4660	-.2987	-.4109	-.5000
45.000		.2413	.1373	-.6858	-.5506	-.1541	-.1453	-.1676	-.2270	-.1208	.1760				
90.000		.2953	.1930	-.6818	-.4811	-.3777	-.3101	-.3353	-.3086	-.1329	.1401		-.5161	-.4968	
135.000		.4512	.3047	-.6377	-.3306	-.0123	-.2197	-.2495	-.2674	-.0371	.2532				
180.000	1.2901	.6154	.4617	-.5899	.1506	.0851	-.1094	-.1661	-.1950	.0812	.2854	.6512	-.1730	-.3948	-.6451
225.000		.6024	.5617	-.5534	.2561	.1460	-.0896	-.1458	-.1445	.1186	.3318				
270.000		.3443	.4211	-.5229	.0584	-.4560	-.5798	-.2221	-.0932	.0327	.2982	.7377	.2040	.2402	-.5708
315.000		.1925	-.0085	-.7750	-.5587	-.3910	-.1832	-.1133	-.0871	.0107	.2444				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1495	-.3110	.0587	.4232	.0196	-.0911
45.000	-.1418	-.2156			-.0218	-.1008
90.000	-.2544	-.1088	.2923	-.0920	.1260	.0935
135.000	-.1275	-.0892			.3905	.2805
180.000	-.1617	-.1894	.4711	-.1201	.2981	.1785
225.000	-.2821	-.3085			-.0830	.0000
270.000	-.3196	-.2816	-.1262	-.2466	-.1998	-.2056
315.000	-.2937	-.3395			-.1159	-.1142

BETAL (1) =   .180   ALPHAL(2) =   -4.560

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3168	.2456	.1616	-.6699	-.5539	-.2021	-.0635	-.0660	-.0788	-.0048	.2666	.4365	-.2778	-.3728	-.4524
45.000		.2747	.1966	-.6655	-.5165	-.1032	-.0767	-.1083	-.1180	-.0277	.2379				
90.000		.3172	.2452	-.6608	-.4648	-.2365	-.1948	-.2331	-.2202	-.0796	.1862		-.5058	-.4965	
135.000		.4284	.3134	-.6307	-.3726	.0217	-.1300	-.1703	-.1977	.0158	.2885				
180.000	1.3168	.5277	.4178	-.6031	-.2366	.1176	-.0915	-.1448	-.1529	.0980	.3048	.6740	-.2322	-.4297	-.5868
225.000		.5419	.5101	-.5807	-.2458	.1733	-.1049	-.1421	-.1470	.1319	.3325				
270.000		.3071	.4957	-.5092	-.3020	-.3381	-.5926	-.1973	-.0850	.0436	.2969	.7082	.1037	.1659	-.4650
315.000		.2476	.1176	-.7221	-.4967	-.4209	-.0862	-.0730	-.0695	.0141	.2579				

ARC11-019 IA81 LVAP(SBHL UNSEALD) SRM BOOSTER   (RETS01)

BETAL (1) =   .180   ALPHAL(2) =   -4.560

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1484	-.3384	.0641	.2309	.0449	-.0443
45.000	-.0806	-.2106			.0266	-.0436
90.000	-.2266	-.0984	.1492	-.0215	.1558	.1179
135.000	-.1011	-.0856			.3256	.2489
180.000	-.1638	-.1545	.3860	-.0366	.2865	.1738
225.000	-.3141	-.3059			-.0487	.0000
270.000	-.3091	-.2701	-.0740	-.2377	-.1809	-.1843
315.000	-.2930	-.3271			-.1245	-.1234

BETAL (1) =   .105   ALPHAL(3) =   -2.337

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3249	.2860	.2156	-.6591	-.5129	-.2084	-.0395	-.0347	-.0597	.0164	.2734	.4599	-.3392	-.3103	-.4254
45.000		.3104	.2372	-.6572	-.4868	-.1144	-.0181	-.0597	-.0926	.0066	.2697				
90.000		.3504	.2727	-.6505	-.4534	-.1196	-.0951	-.1398	-.1554	.0019	.2517		-.5024	-.5112	
135.000		.4075	.3075	-.6280	-.4072	.0374	-.0524	-.1130	-.1494	.0637	.3287				
180.000	1.3249	.4718	.3665	-.6160	-.3380	.1289	-.0549	-.1247	-.1398	.1252	.3395	.6902	-.2561	-.4570	-.5482
225.000		.4909	.4498	-.6029	-.3336	.1407	-.0934	-.1320	-.1467	.1507	.3476				
270.000		.4280	.5652	-.4797	-.5302	-.3486	-.4246	-.1783	-.0765	.0553	.2879	.7855	.1903	.2835	-.4995
315.000		.3238	.2224	-.6857	-.4979	-.3997	-.0766	-.0636	-.0601	.0258	.2467				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1652	-.3139	.0011	.1609	.1090	.0475
45.000	-.0689	-.2172			.1269	.0716
90.000	-.1813	-.0946	.0890	.0498	.1692	.1057
135.000	-.0939	-.0896			.2593	.1859
180.000	-.1740	-.1250	.2927	.0089	.2408	.1295
225.000	-.3139	-.2967			-.0418	.0000
270.000	-.3054	-.2613	-.0954	-.2258	-.1810	-.1830
315.000	-.2793	-.3100			-.1613	-.1269

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL UNSEALD) SRM BOOSTER   (RETS01)

BETAL (1) =   .081   ALPHAL(4) =   -.131

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000		.0000	.0000	
90.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				
135.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				
225.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
270.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				
315.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0000	.0000	.0000	.0000	.0000	.0000
45.000	.0000	.0000			.0000	.0000
90.000	.0000	.0000	.0000	.0000	.0000	.0000
135.000	.0000	.0000			.0000	.0000
180.000	.0000	.0000	.0000	.0000	.0000	.0000
225.000	.0000	.0000			.0000	.0000
270.000	.0000	.0000	.0000	.0000	.0000	.0000
315.000	.0000	.0000			.0000	.0000

BETAL (1) =   .109   ALPHAL(5) =   2.068

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3205	.3837	.3062	-.6338	-.4219	-.1223	-.0150	-.0068	-.0225	.0028	.2953	.4946	-.2351	-.3148	-.4018
45.000		.3387	.2843	-.6399	-.4419	-.1702	.0299	.0066	-.0480	.0185	.3174		-.4545	-.4644	
90.000		.3212	.2789	-.6414	-.4567	-.1476	.0561	-.0061	-.0941	.0839	.3069				
135.000		.3236	.2631	-.6324	-.4705	.0030	.0534	-.0291	-.0882	.1440	.3441				
180.000	1.3205	.3192	.2624	-.6364	-.4808	.0192	.0231	-.0655	-.1103	.1741	.3625	.6567	-.2800	-.4126	-.4600
225.000		.3451	.2900	-.6577	-.4132	-.1982	.0087	-.0587	-.0953	.1846	.3679				
270.000		.4155	.5825	-.4707	-.4144	-.3305	-.0497	-.0429	-.0495	.1071	.3032	.6748	.2107	.2303	-.4669
315.000		.4229	.3929	-.6214	-.4250	-.2184	-.0568	-.0068	-.0166	.0491	.2746				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1014	-.2753	.0498	.1091	.1753	.1448
45.000	-.0422	-.2039			.2058	.1436
90.000	-.1154	-.1005	.0965	.0765	.1766	.0908
135.000	-.0150	-.1003			.2496	.1691
180.000	-.1374	-.0556	.1833	.0332	.1142	.0047

ARC11-019 IA81 LVAP(SBHL UNSEALD) SRM BOOSTER   (RETS01)

BETAL (1) =   .109   ALPHAL(5) =   2.068

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2530	-.2945			.0048	.0000
270.000	-.2871	-.2572	-.0898	-.1954	-.1474	-.1558
315.000	-.2573	-.3023			-.0944	-.0713

BETAL (1) =   .140   ALPHAL(6) =   4.247

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3113	.4545	.3538	-.6307	-.3684	-.0922	.0019	.0079	-.0115	-.0096	.3195	.5672	-.2208	-.3186	-.4437
45.000		.3637	.2894	-.6440	-.4204	-.1710	.0293	.0140	-.0470	-.0148	.3450				
90.000		.3013	.2525	-.6542	-.4633	-.2299	.0458	.0007	-.1028	.0796	.3219		-.4709	-.4923	
135.000		.2539	.2172	-.6430	-.4976	-.0271	.0558	-.0137	-.0838	.1496	.3295				
180.000	1.3113	.2485	.2019	-.6480	-.5223	-.0646	.0339	-.0436	-.0777	.1855	.3418	.5689	-.3090	-.4284	-.4119
225.000		.2771	.1908	-.6909	-.3215	-.3108	.0104	-.0266	-.0470	.1963	.3354				
270.000		.3985	.5375	-.4853	-.4009	-.3098	-.0594	-.0414	-.0334	.1295	.3217	.5513	.0973	.1415	-.4602
315.000		.4770	.4577	-.5997	-.3573	-.1492	-.0256	-.0183	-.0064	.0400	.2995				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0693	-.2483	.1454	.0212	.2701	.2170
45.000	-.0204	-.1943			.2487	.1861
90.000	-.1029	-.0748	.1374	.0553	.1242	.0226
135.000	.0259	-.1132			.2594	.1719
180.000	-.1107	-.0439	.2297	.0197	.0952	-.0049
225.000	-.2252	-.3329			.0667	.0000
270.000	-.2701	-.2403	-.0236	-.1613	-.1084	-.1312
315.000	-.2382	-.2890			-.0127	.0062

BETAL (1) =   .223   ALPHAL(7) =   6.430

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2937	.5043	.3946	-.6175	-.3355	-.0733	-.0396	.0206	.0141	-.0031	.3740	.6416	-.1048	-.2848	-.4538
45.000		.3685	.2839	-.6493	-.4056	-.1269	-.0243	.0056	-.0488	-.0384	.3657				
90.000		.2468	.2112	-.6675	-.4784	-.3184	-.0100	-.0272	-.1403	.0718	.3409		-.4716	-.4849	
135.000		.1842	.1656	-.6566	-.5317	-.0525	.0335	-.0109	-.0678	.1384	.3015				
180.000	1.2937	.1707	.1407	-.6603	-.5165	-.1191	.0252	-.0189	-.0335	.1928	.2998	.5064	-.2982	-.4059	-.3819
225.000		.1714	.0793	-.7292	-.3632	-.2653	-.0063	-.0073	-.0071	.2047	.2870				

ARC11-019 IA81 LVAP(SBHL UNSEALD) SRM BOOSTER   (RETS01)

BETAL (1) =   .223   ALPHAL(7) =   6.430

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3466	.4568	-.5185	-.4451	-.2298	-.0316	-.0012	-.0098	.1540	.3478	.4900	-.0373	.1998	-.4637
315.000		.5139	.5056	-.5830	-.2495	-.1131	-.0434	.0269	.0321	.0564	.3529				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0521	-.2556	.1756	.0801	.3235	.2758
45.000	-.0257	-.1973			.2899	.2371
90.000	-.0914	-.0897	.1695	.0071	.1230	.0193
135.000	.0208	-.1163			.1512	.0563
180.000	-.0781	-.0688	.2717	-.0277	.1118	.0169
225.000	-.2207	-.3324			.0770	.0000
270.000	-.2558	-.2370	-.0213	-.1652	-.0995	-.1144
315.000	-.2435	-.2714			.0227	.0684

BETAL (1) =   .255   ALPHAL(8) =   8.625

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2651	.5792	.4355	-.6072	-.2166	-.0752	-.0684	.0158	.0231	.0004	.3768	.6996	-.1006	-.2729	-.4900
45.000		.3881	.2723	-.6561	-.3836	-.1597	-.1071	-.0295	-.0723	-.0584	.3555				
90.000		.2029	.1528	-.6936	-.5075	-.4084	-.1139	-.0747	-.1827	.0829	.3280		-.4613	-.4665	
135.000		.1397	.0987	-.6812	-.5737	-.1135	-.0061	-.0107	-.1038	.0912	.2470				
180.000	1.2651	.1254	.0673	-.6855	-.4363	-.1642	.0175	-.0042	-.0280	.1945	.3020	.5160	-.2301	-.3875	-.3779
225.000		.0913	-.0628	-.7179	-.3563	-.2933	-.0178	.0007	.0078	.2132	.3089				
270.000		.2789	.3893	-.5526	-.4305	-.2795	-.0993	-.0139	-.0157	.1590	.3864	.5547	-.0353	.4270	-.4759
315.000		.5528	.5440	-.5624	-.1722	-.1209	-.0231	.0377	.0527	.0733	.3823				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0318	-.2680	.2547	.1338	.4620	.3701
45.000	.0016	-.2334			.3088	.2372
90.000	-.0778	-.1152	.2088	-.0243	.0650	-.0151
135.000	.0018	-.1528			.0770	-.0152
180.000	-.0800	-.1147	.2549	-.0746	.0953	.0018
225.000	-.2128	-.3195			.0311	.0000
270.000	-.2497	-.2344	-.0368	-.1625	-.1174	-.1412
315.000	-.2324	-.2869			.1041	.1401

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS02)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .600   RN/FT =   3.200
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   55.000
SCALE =   .0300 SCALE

BETAL (1) =   .088   ALPHAL(1) =   -6.461

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0514	-.0420	-.3394	-.9932	-.2351	-.1880	-.0736	-.0531	-.0522	-.0738	.0004	.2447	-.5449	-.3728	-.4855
45.000		-.0071	-.3035	-1.0608	-.2211	-.1531	-.1168	-.0914	-.0876	-.1120	-.0659				
90.000		.0349	-.2341	-1.0913	-.2315	-.3401	-.2819	-.2567	-.2637	-.2323	-.0424			-.6436	-.6559
135.000		.1955	-.1234	-.9319	-.1949	-.1517	-.1365	-.1216	-.0991	-.1254	-.0203				
180.000	1.0514	.3927	.0570	-.8648	-.0926	-.0798	-.0670	-.0446	-.0150	-.0346	.0222	.4793	-.6703	-.6068	-.6243
225.000		.4151	.1771	-.5751	-.0654	-.0510	-.0400	-.0093	.0141	.0008	.1247				
270.000		.1217	-.0656	-.7323	-.1682	-.4051	-.2334	-.1430	-.0924	-.1073	.0843	.7079	-.2316	-.0060	-.5377
315.000		-.0497	-.4509	-1.0558	-.4235	-.4196	-.0808	-.0640	-.0413	-.0508	.0388				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0685	-.2128	.1250	-.2012	.0064	-.1213
45.000	-.1021	-.1266			.0207	-.0876
90.000	-.1463	-.1241	.1626	-.1309	.0985	-.0570
135.000	-.0610	-.1295			.1940	.0073
180.000	.0504	-.2467	.4554	-.1709	.1971	-.0205
225.000	-.2298	-.2748			.1746	.0000
270.000	-.2388	-.2118	.1212	-.1368	-.0685	-.0969
315.000	-.2662	-.2762			-.0282	-.1057

BETAL (1) =   .047   ALPHAL(2) =   -4.315

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0960	.0230	-.2978	-1.0297	-.2165	-.1565	-.0563	-.0396	-.0363	-.0451	.0274	.2609	-.5076	-.3211	-.4406
45.000		.0537	-.2529	-1.0537	-.1984	-.1170	-.0801	-.0541	-.0555	-.0660	.0118				
90.000		.0901	-.1965	-1.0618	-.1846	-.2133	-.1677	-.1489	-.1608	-.1414	.0044			-.6163	-.6328
135.000		.1999	-.1250	-.9240	-.1680	-.1145	-.0965	-.0795	-.0526	-.0703	.0228				
180.000	1.0960	.3357	-.0016	-1.0236	-.1107	-.0848	-.0637	-.0398	-.0083	-.0147	.0482	.4821	-.6226	-.5964	-.5617
225.000		.3802	.1027	-.8007	-.1084	-.0649	-.0500	-.0230	.0150	.0164	.1334				
270.000		.2037	.0329	-.6380	-.2723	-.3562	-.1709	-.1085	-.0688	-.0849	.0878	.6960	-.2127	.0320	-.4679
315.000		.0488	-.3622	-1.0845	-.3378	-.3888	-.0678	-.0502	-.0331	-.0426	.0418				

ARC11-019 IA81 LVAP(SBHL SEALED)　SRM BOOSTER　　　　　　　(RETS02)

BETAL (1) =　　.047　　ALPHAL(2) =　-4.315

SECTION (1)SRM BOOSTER　　　　　　DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0853	-.1923	.0916	-.1612	.0666	-.0638
45.000	-.0471	-.1163			.1158	-.0211
90.000	-.1028	-.0742	.1548	-.0848	.1408	-.0222
135.000	-.0598	-.0847			.1769	-.0010
180.000	.0241	-.1754	.3760	-.1480	.1602	-.0355
225.000	-.2215	-.2658			.1568	.0000
270.000	-.2424	-.1978	.1076	-.1306	-.0742	-.1135
315.000	-.2561	-.2557			-.0527	-.1023

BETAL (1) =　　.034　　ALPHAL(3) =　-2.199

SECTION (1)SRM BOOSTER　　　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1079	.0876	-.2546	-1.0675	-.2027	-.1237	-.0446	-.0313	-.0220	-.0280	.0330	.2699	-.5068	-.3345	-.4273
45.000		.0989	-.2222	-1.0479	-.1753	-.0869	-.0498	-.0303	-.0254	-.0378	.0478				
90.000		.1238	-.1688	-1.0960	-.1511	-.1212	-.0787	-.0651	-.0804	-.0583	.0429		-.5971	-.6073	
135.000		.1867	-.1358	-.9562	-.1475	-.0768	-.0637	-.0442	-.0227	-.0262	.0630				
180.000	1.1079	.2724	-.0606	-1.0717	-.1208	-.0771	-.0574	-.0394	.0024	.0115	.0683	.4781	-.5982	-.5754	-.5303
225.000		.3307	.0198	-.8201	-.1573	-.0692	-.0526	-.0226	.0172	.0330	.1342				
270.000		.2584	.0968	-.6309	-.3695	-.2847	-.0922	-.0508	-.0223	-.0343	.1131	.6592	-.2198	.0186	-.4925
315.000		.1280	-.2633	-1.0930	-.2991	-.2906	-.0581	-.0397	-.0237	-.0283	.0375				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0934	-.2157	.1152	-.1277	.1350	-.0199
45.000	.0039	-.1207			.1696	.0258
90.000	-.0535	-.0401	.1816	-.0599	.1925	.0026
135.000	-.0553	-.0546			.1731	-.0090
180.000	-.0069	-.1311	.3240	-.1232	.1048	-.0632
225.000	-.1860	-.2722			.1270	.0000
270.000	-.2478	-.2107	.0685	-.1403	-.0774	-.1069
315.000	-.2543	-.2593			-.0501	-.0914

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS02)

BETAL (1) =   .026   ALPHAL(4) =   -.091

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1152	.1445	-.2033	-1.2043	-.1957	-.0890	-.0385	-.0250	-.0188	-.0208	.0524	.3036	-.5029	-.4067	-.3920
45.000		.1389	-.1896	-1.0347	-.1593	-.0677	-.0337	-.0164	-.0112	-.0173	.0627				
90.000		.1481	-.1526	-1.0220	-.1307	-.0720	-.0357	-.0296	-.0359	-.0085	.0662		-.5787	-.5819	
135.000		.1674	-.1533	-.9770	-.1329	-.0637	-.0420	-.0338	-.0028	.0063	.0799				
180.000	1.1152	.2102	-.1136	-1.0831	-.1304	-.0738	-.0500	-.0355	.0088	.0278	.0785	.4595	-.5618	-.5525	-.4817
225.000		.2742	-.0657	-1.0445	-.1960	-.0612	-.0524	-.0300	.0165	.0436	.1254				
270.000		.2889	.1253	-.7348	-.4862	-.1548	-.0622	-.0327	.0067	.0098	.1092	.5293	-.1944	-.0051	-.4057
315.000		.2032	-.1850	-1.1812	-.2972	-.1702	-.0656	-.0397	-.0127	-.0198	.0418				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0885	-.1872	.1442	-.0921	.2075	.0234
45.000	.0362	-.1263			.2447	.0518
90.000	-.0153	.0110	.1991	-.0166	.1972	.0147
135.000	-.0204	-.0485			.1840	.0095
180.000	-.0056	-.0690	.2808	-.1049	.0619	-.0830
225.000	-.1818	-.2715			.0973	.0000
270.000	-.2326	-.2107	.0369	-.1424	-.0707	-.0932
315.000	-.2405	-.2600			-.0311	-.0517

BETAL (1) =   .027   ALPHAL(5) =   2.046

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1183	.2089	-.1397	-1.1727	-.1809	-.0664	-.0279	-.0130	-.0015	-.0089	.0801	.3667	-.5177	-.4734	-.3918
45.000		.1707	-.1545	-1.0947	-.1535	-.0591	-.0286	-.0081	-.0015	-.0054	.0938				
90.000		.1461	-.1474	-1.0389	-.1290	-.0635	-.0241	-.0189	-.0175	.0139	.0864		-.5606	-.5641	
135.000		.1514	-.1678	-.9792	-.1308	-.0527	-.0321	-.0171	.0111	.0329	.0931				
180.000	1.1183	.1545	-.1576	-1.0220	-.1334	-.0674	-.0470	-.0230	.0174	.0509	.0811	.4325	-.5156	-.5219	-.4410
225.000		.2111	-.1432	-1.0771	-.2227	-.0746	-.0612	-.0341	.0185	.0639	.1138				
270.000		.2915	.1303	-.7926	-.5325	-.1373	-.0432	-.0182	.0192	.0290	.1008	.4237	-.1854	-.0447	-.3693
315.000		.2743	-.0930	-1.2403	-.2565	-.1067	-.0473	-.0237	-.0047	-.0054	.0531				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0725	-.1584	.2266	-.0425	.2639	.0536
45.000	.0288	-.1046			.2736	.0637
90.000	.0066	.0295	.2642	-.0028	.1598	-.0081
135.000	.0259	-.0426			.1625	-.0053
180.000	-.0047	-.0253	.2573	-.0759	.0229	-.1029

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS02)

BETAL (1) =   .027   ALPHAL(5) =   2.046

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1789	-.3080			.1441	.0000
270.000	-.2327	-.2016	.0877	-.1118	-.0363	-.0740
315.000	-.2276	-.2539			.0257	-.0127

BETAL (1) =   .033   ALPHAL(6) =   4.175

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0997	.2774	-.0867	-1.1189	-.1623	-.0589	-.0201	-.0132	.0007	-.0065	.0938	.4326	-.5358	-.4789	-.4206
45.000		.1868	-.1376	-1.0231	-.1587	-.0665	-.0330	-.0208	-.0125	-.0135	.1100				
90.000		.1285	-.1601	-1.0178	-.1360	-.0986	-.0549	-.0500	-.0427	.0188	.1047		-.5242	-.5361	
135.000		.1068	-.2026	-1.0024	-.1346	-.0632	-.0358	-.0215	.0118	.0470	.0924				
180.000	1.0997	.0910	-.2110	-.9894	-.1490	-.0798	-.0417	-.0205	.0167	.0561	.0801	.3563	-.5077	-.4943	-.4202
225.000		.1282	-.2317	-1.0643	-.2564	-.1450	-.0629	-.0240	.0301	.0797	.1142				
270.000		.2686	.0990	-.6928	-.4914	-.1627	-.0566	-.0267	.0273	.0428	.1156	.3964	-.1737	-.0054	-.3177
315.000		.3315	-.0066	-1.1299	-.2168	-.0827	-.0118	-.0059	.0100	.0027	.0726				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0335	-.1429	.2843	-.0412	.3055	.0755
45.000	.0255	-.1069			.2749	.0585
90.000	.0083	.0152	.3100	-.0398	.1512	-.0016
135.000	.0548	-.0633			.1540	-.0169
180.000	.0015	-.0338	.2770	-.1009	.0286	-.1010
225.000	-.1631	-.3233			.1179	.0000
270.000	-.2203	-.2074	.0984	-.1082	-.0325	-.0742
315.000	-.2319	-.2509			.0821	.0155

BETAL (1) =   .073   ALPHAL(7) =   6.303

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0592	.3334	-.0273	-1.0187	-.1446	-.0487	-.0209	-.0119	.0003	-.0043	.1046	.4862	-.5480	-.4885	-.4205
45.000		.1891	-.1329	-.9621	-.1763	-.0842	-.0614	-.0442	-.0397	-.0302	.1021				
90.000		.0823	-.1888	-1.0333	-.1705	-.1765	-.1351	-.1142	-.0873	-.0022	.0997		-.5032	-.4825	
135.000		.0567	-.2307	-.9956	-.1518	-.0778	-.0521	-.0280	.0045	.0445	.0769				
180.000	1.0592	.0298	-.2499	-.9564	-.1486	-.1029	-.0393	-.0187	.0234	.0743	.0780	.3173	-.4237	-.4044	-.3988
225.000		.0350	-.3096	-1.0305	-.2576	-.2651	-.0469	-.0300	.0252	.0913	.1088				

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS02)

BETAL (1) =   .073   ALPHAL(7) =   6.303

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2125	.0423	-.6583	-.4722	-.2562	-.0919	-.0780	-.0046	.0567	.1853	.4497	-.3172	.2791	-.3925
315.000		.3712	.0741	-.9348	-.1628	-.0825	-.0064	.0038	.0217	.0199	.1127				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0121	-.1290	.3763	-.0006	.3648	.1105
45.000	.0388	-.1077			.2861	.0619
90.000	.0062	-.0083	.3524	-.0675	.1230	-.0280
135.000	.0516	-.0648			.0997	-.0590
180.000	.0217	-.0490	.2795	-.1071	.0307	-.1012
225.000	-.1286	-.2591			.0702	.0000
270.000	-.2004	-.1856	.0064	-.1085	-.0453	-.1079
315.000	-.2285	-.2461			.1528	.0423

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   -   (RETS03)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT			
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT			
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT			
SCALE = .0300 SCALE				

MACH =	.900	RN/FT =	3.500
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	55.000

BETAL (1) =   .303   ALPHAL(1) = -6.749

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1745	.0768	-.1189	-1.1423	-.5189	-.2396	-.1321	-.0555	-.0277	-.0339	.0854	.3579	-.5734	-.5211	-.6527
45.000		.1017	-.0847	-1.1416	-.7837	-.1550	-.1753	-.0906	-.0864	-.1326	-.0439				
90.000		.1380	-.0318	-1.1400	-.7452	-.3737	-.3382	-.2405	-.1994	-.1889	.0294		-.7216	-.7277	
135.000		.2969	.0670	-1.0897	-.3018	-.2518	-.2551	-.1340	-.0733	-.0929	.0742				
180.000	1.1745	.4886	.2399	-1.0357	-.0430	-.1290	-.1985	-.0555	.0180	.0233	.1447	.5817	-.1899	-.7084	-.7124
225.000		.5126	.3590	-.9879	.0076	-.0506	-.1755	-.0166	.0572	.0661	.2470				
270.000		.2441	.2097	-.9745	-.1650	-.4373	-.2994	-.0664	-.0037	-.0378	.1823	.7538	.0483	.1088	-.6319
315.000		.0680	-.2156	-1.2155	-.5939	-.4654	-.1604	-.0496	.0002	-.0058	.1333				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0913	-.3638	.1998	-.3302	.0575	-.1083
45.000	-.2312	-.1567			-.0812	-.1463
90.000	-.2489	-.1133	.1340	-.1447	.0195	-.0690
135.000	-.2497	-.2130			.2858	.1191
180.000	-.1548	-.2180	.3824	-.1358	.1014	-.0038
225.000	-.2990	-.2831			-.0953	.0000
270.000	-.2881	-.2797	-.1182	-.2650	-.2192	-.2081
315.000	-.3199	-.3083			-.1638	-.1486

BETAL (1) =   .202   ALPHAL(2) = -4.516

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2109	.1343	-.0675	-1.1320	-.4960	-.2131	-.1068	-.0336	-.0081	-.0094	.1020	.3261	-.5352	-.4185	-.5897
45.000		.1595	-.0313	-1.1285	-.8867	-.1023	-.1257	-.0502	-.0242	-.0489	.0693				
90.000		.1973	.0165	-1.1263	-.8160	-.2380	-.2426	-.1411	-.1136	-.1132	.0714		-.6931	-.7016	
135.000		.2997	.0775	-1.0930	-.4140	-.1552	-.1989	-.0880	-.0302	-.0314	.1232				
180.000	1.2109	.4330	.1941	-1.0640	-.0651	-.1114	-.1717	-.0548	.0238	.0437	.1722	.5813	-.2453	-.6762	-.6613
225.000		.4757	.3101	-1.0268	-.0024	-.0555	-.1647	-.0325	.0495	.0822	.2507				
270.000		.3259	.3082	-.9309	-.3838	-.4010	-.2444	-.0479	.0089	-.0005	.1781	.7292	.0501	.1045	-.5475
315.000		.1653	-.0992	-1.1827	-.5515	-.4767	-.1308	-.0336	.0016	.0047	.1150				

DATE 21 OCT 75   IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(S8HL SEALED)   SRM BOOSTER   (RETS03)

BETAL (1) =   .202   ALPHAL(2) =   -4.516

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0901	-.2960	.0830	-.1960	-.0415	-.1223
45.000	-.1939	-.1174			-.0080	-.0814
90.000	-.2196	-.0807	.0726	-.0842	.0486	-.0415
135.000	-.2244	-.1195			.2491	.0961
180.000	-.1003	-.2170	.3863	-.1200	.1193	-.0064
225.000	-.2678	-.2508			-.0916	.0000
270.000	-.2845	-.2677	-.1226	-.2577	-.2126	-.2024
315.000	-.3085	-.2936			-.1735	-.1601

BETAL (1) =   .127   ALPHAL(3) =   -2.324

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2252	.1895	-.0185	-1.1318	-.6324	-.1701	-.0982	-.0233	.0027	.0011	.1009	.3165	-.5117	-.3902	-.5408
45.000		.2042	.0011	-1.1270	-.8687	-.0536	-.0892	-.0291	-.0011	-.0043	.1081		-.6952	-.6978	
90.000		.2316	.0395	-1.1254	-.8218	-.1110	-.1470	-.0710	-.0370	-.0289	.1166				
135.000		.2868	.0697	-1.0990	-.5305	-.0848	-.1486	-.0636	.0032	.0164	.1548				
180.000	1.2252	.3664	.1429	-1.0836	-.2443	-.0920	-.1610	-.0541	.0274	.0650	.1877	.5693	-.3173	-.6841	-.6579
225.000		.4263	.2450	-1.0615	-.1930	-.0836	-.1561	-.0349	.0476	.0945	.2475				
270.000		.3716	.3755	-.9072	-.6121	-.4058	-.2055	-.0219	.0253	.0279	.1856	.6664	.0214	.0558	-.6075
315.000		.2478	-.0007	-1.1563	-.5116	-.4422	-.1269	-.0173	.0070	.0112	.1087				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1088	-.2693	-.0067	-.1636	.0211	-.0627
45.000	-.1608	-.1200			.0736	-.0044
90.000	-.1887	-.0536	.0500	-.0120	.0850	-.0166
135.000	-.1957	-.0580			.1542	.0304
180.000	-.1168	-.2253	.3792	-.1294	.1422	.0079
225.000	-.2559	-.2638			-.0676	.0000
270.000	-.2684	-.2715	-.1171	-.2461	-.2005	-.1903
315.000	-.3013	-.2927			-.1858	-.1599

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS03)

BETAL (1) =   .084   ALPHAL(4) =   -.180

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2308	.2628	.0332	-1.1207	-.8432	-.1331	-.0684	-.0245	.0073	.0164	.1312	.3824	-.5020	-.4202	-.5015
45.000		.2413	.0304	-1.1181	-.8344	-.0167	-.0564	-.0207	.0091	.0253	.1441				
90.000		.2481	.0535	-1.1172	-.8080	-.0280	-.0762	-.0401	-.0036	.0363	.1401		-.6728	-.6898	
135.000		.2735	.0584	-1.0937	-.7229	-.0290	-.0960	-.0455	.0260	.0580	.1598				
180.000	1.2308	.3113	.0954	-1.0886	-.4042	-.0736	-.1133	-.0533	.0339	.0851	.1675	.4961	-.3390	-.6255	-.6302
225.000		.3765	.1731	-1.0874	-.4525	-.1352	-.0873	-.0478	.0367	.1031	.2146				
270.000		.4008	.4123	-.8840	-.6463	-.4119	-.0780	-.0619	.0019	.0658	.2261	.5319	-.0626	.1113	-.5424
315.000		.3259	.0921	-1.1220	-.5572	-.4015	-.0833	-.0216	.0199	.0344	.1387				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1458	-.2277	.0210	-.0986	.1235	.0143
45.000	-.1291	-.1275			.1921	.0692
90.000	-.1404	-.0151	.0889	.0259	.1436	.0132
135.000	-.1655	-.0254			.1019	-.0145
180.000	-.1409	-.1523	.2927	-.1081	.1045	-.0375
225.000	-.2440	-.2628			-.0450	.0000
270.000	-.2686	-.2660	-.1013	-.2271	-.1709	-.1748
315.000	-.3067	-.2857			-.1417	-.1129

BETAL (1) =   .067   ALPHAL(5) =   .149

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2348	.2645	.0362	-1.1022	-.8402	-.1385	-.0704	-.0290	.0114	.0162	.1367	.4012	-.4914	-.4130	-.5037
45.000		.2445	.0396	-1.0994	-.8337	-.0149	-.0582	-.0217	.0146	.0202	.1505				
90.000		.2511	.0640	-1.0992	-.8117	-.0263	-.0787	-.0382	.0001	.0314	.1435		-.6783	-.6949	
135.000		.2741	.0656	-1.0876	-.7766	-.0232	-.1011	-.0465	.0255	.0554	.1656				
180.000	1.2348	.3120	.1011	-1.0830	-.5332	-.0670	-.1149	-.0577	.0337	.0836	.1761	.5018	-.3373	-.6401	-.6212
225.000		.3750	.1781	-1.0830	-.5364	-.1375	-.0958	-.0520	.0367	.1065	.2187				
270.000		.3983	.4193	-.8801	-.6410	-.4119	-.0944	-.0665	.0050	.0718	.2291	.5260	-.0624	.1106	-.5448
315.000		.3262	.1036	-1.1148	-.5657	-.4051	-.0937	-.0244	.0185	.0376	.1466				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1422	-.2269	.0221	-.0946	.1222	.0131
45.000	-.1283	-.1297			.1908	.0674
90.000	-.1372	-.0118	.1471	.0242	.1329	.0135
135.000	-.1616	-.0257			.1008	-.0119
180.000	-.1393	-.1510	.2954	-.1082	.1022	-.0324

ARC11-019 IA81 LVAP(SBHL SEALED)　SRM BOOSTER　　　　　　　(RETS03)

BETAL (1) = .067　　ALPHAL(5) = .149

SECTION (1)SRM BOOSTER　　　　　　　DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2454	-.2666			-.0471	.0000
270.000	-.2710	-.2735	-.0973	-.2256	-.1689	-.1783
315.000	-.2964	-.2947			-.1374	-.1145

BETAL (1) = .074　　ALPHAL(6) = 2.025

SECTION (1)SRM BOOSTER　　　　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2266	.3174	.0859	-1.1199	-.7961	-.0838	-.0591	-.0210	.0123	.0248	.1626	.4525	-.4781	-.4585	-.4902
45.000		.2658	.0483	-1.1225	-.8059	-.0013	-.0501	-.0210	.0112	.0307	.1683				
90.000		.2420	.0488	-1.1246	-.7949	.0129	-.0571	-.0410	.0059	.0566	.1506		-.6413	-.6576	
135.000		.2394	.0333	-1.1001	-.4679	.0068	-.0723	-.0447	.0290	.0835	.1528				
180.000	1.2266	.2476	.0441	-1.1010	-.3484	-.0809	-.0931	-.0496	.0311	.1079	.1603	.4389	-.2809	-.5669	-.5717
225.000		.3071	.0851	-1.1169	-.3623	-.2232	-.0728	-.0516	.0342	.1147	.2042				
270.000		.3940	.4065	-.8436	-.5511	-.4107	-.0700	-.0632	.0010	.0765	.2457	.5201	-.1175	.2084	-.5272
315.000		.3844	.1736	-1.0970	-.6024	-.3439	-.0732	-.0125	.0258	.0412	.1780				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1147	-.2010	.0786	-.0635	.1689	.0548
45.000	-.1278	-.0815			.2029	.0738
90.000	-.1213	-.0088	.1208	.0323	.1408	.0056
135.000	-.1341	-.0261			.0891	-.0305
180.000	-.1214	-.1262	.2289	-.1001	.0601	-.0727
225.000	-.2356	-.2629			-.0486	.0000
270.000	-.2565	-.2672	-.1138	-.2202	-.1622	-.1555
315.000	-.2866	-.2913			-.1163	-.0877

BETAL (1) = .085　　ALPHAL(7) = 4.235

SECTION (1)SRM BOOSTER　　　　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2085	.3794	.1319	-1.0970	-.7070	-.0443	-.0279	-.0175	.0156	.0282	.1730	.4852	-.4643	-.5085	-.5182
45.000		.2833	.0596	-1.1135	-.7642	-.0105	-.0479	-.0377	-.0035	.0261	.1838				
90.000		.2218	.0356	-1.1222	-.5562	-.0301	-.0703	-.0804	-.0204	.0614	.1711		-.6362	-.6458	
135.000		.1976	.0029	-1.1033	-.3722	.0048	-.0615	-.0541	.0320	.0958	.1559				
180.000	1.2085	.1885	-.0036	-1.1062	-.3787	-.1010	-.0809	-.0560	.0406	.1208	.1639	.4213	-.2853	-.5460	-.5507
225.000		.2274	-.0088	-1.1442	-.4322	-.3291	-.0724	-.0534	.0451	.1336	.2018				

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS03)

BETAL (1) =   .085   ALPHAL(7) =   4.235

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3678	.3699	-.8520	-.4818	-.4214	-.1025	-.0767	.0226	.0927	.2341	.5041	-.0839	.1785	-.5088
315.000		.4348	.2427	-1.0590	-.6674	-.1887	-.0378	-.0206	.0280	.0498	.1850				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0791	-.2133	.1738	-.0311	.2415	.1198
45.000	-.1268	-.0621			.2149	.0818
90.000	-.1217	-.0046	.1674	.0026	.1152	-.0163
135.000	-.1117	-.0286			.0995	-.0230
180.000	-.1251	-.1078	.2080	-.0964	.0506	-.0918
225.000	-.2646	-.2819			-.0149	.0000
270.000	-.2605	-.2543	-.0789	-.2124	-.1510	-.1470
315.000	-.2790	-.2855			-.0849	-.0590

BETAL (1) =   .066   ALPHAL(8) =   6.247

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP ·

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1747	.4356	.1731	-1.0878	-.5928	-.0531	-.0195	-.0098	.0203	.0302	.2029	.5521	-.3827	-.5161	-.5265
45.000		.2828	.0603	-1.1161	-.7373	-.0584	-.0692	-.0605	-.0313	.0028	.1893				
90.000		.1710	-.0008	-1.1412	-.4455	-.1291	-.1422	-.1425	-.0630	.0529	.1743		-.5968	-.5932	
135.000		.1395	-.0399	-1.1280	-.3792	-.0370	-.0741	-.0556	.0248	.0974	.1366				
180.000	1.1747	.1240	-.0579	-1.1270	-.3893	-.1240	-.0713	-.0455	.0437	.1330	.1420	.3744	-.3084	-.5272	-.5194
225.000		.1322	-.1201	-1.1891	-.3780	-.3375	-.0674	-.0455	.0447	.1359	.1755				
270.000		.3071	.2991	-.9137	-.3991	-.3236	-.0894	-.0820	.0100	.1080	.2709	.4840	-.1664	.4060	-.4974
315.000		.4723	.3017	-1.0464	-.5176	-.1443	-.0012	.0053	.0407	.0637	.2233				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0251	-.2621	.2778	.0111	.3664	.1884
45.000	-.1425	-.0678			.2373	.0901
90.000	-.1338	-.0199	.2109	-.0279	.0985	-.0404
135.000	-.1154	-.0452			.0500	-.0694
180.000	-.1349	-.1212	.2014	-.1083	.0375	-.1011
225.000	-.2778	-.2946			.0208	.0000
270.000	-.2766	-.2534	-.0494	-.1828	-.1132	-.1204
315.000	-.2864	-.2778			-.0348	.0039

ARC11-019 IA8I LVAP(SBHL SEALED) SRM BOOSTER   (RETS04)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

```
SREF  =  2690.0000 SQ.FT.   XMRP  =   976.0000 IN. XT                              MACH    =   1.100   RN/FT  =    3.000
LREF  =  1297.0000 INCHES   YMRP  =      .0000 IN. YT                              ELV-IB  =    .000   ELV-OB =     .000
BREF  =  1297.0000 INCHES   ZMRP  =   400.0000 IN. ZT                              RUDDER  =    .000   SPDBRK =   55.000
SCALE =     .0300 SCALE
```

BETAL (1) =   .066   ALPHAL(1) =   -4.854

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3074	.2091	.1335	-.6748	-.5679	-.1888	-.0790	-.0863	-.1033	-.0120	.2659	.4505	-.2789	-.4123	-.4757
45.000		.2447	.1650	-.6726	-.5298	-.1314	-.1140	-.1295	-.1592	-.0710	.2177				
90.000		.3137	.2233	-.6677	-.4668	-.2979	-.2520	-.2751	-.2403	-.1102	.1387		-.5101	-.4941	
135.000		.4348	.3112	-.6300	-.3505	.0117	-.1752	-.2058	-.2259	-.0105	.2613				
180.000	1.3074	.5635	.4380	-.5929	-.1284	.0959	-.0989	-.1577	-.1570	.0892	.2941	.6584	-.1924	-.4054	-.6232
225.000		.5674	.5367	-.5619	.0192	.1456	-.0965	-.1407	-.1384	.1260	.3306				
270.000		.3659	.4493	-.5227	-.2495	-.3699	-.4753	-.1823	-.0766	.0535	.3230	.7138	.1451	.1536	-.6447
315.000		.2103	.0581	-.7388	-.5388	-.4111	-.1137	-.0975	-.0757	.0157	.2661				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1280	-.3242	.0887	-.1839	.0456	-.0702
45.000	-.0898	-.2073			-.0123	-.0833
90.000	-.2357	-.1031	.1042	-.0600	.1390	.1025
135.000	-.1167	-.0815			.3384	.2668
180.000	-.1782	-.1794	.4079	-.0778	.2820	.1715
225.000	-.2635	-.3005			-.0858	.0000
270.000	-.3157	-.2750	-.1340	-.2493	-.2050	-.2011
315.000	-.2803	-.3189			-.1471	-.1383

BETAL (1) =   .066   ALPHAL(2) =   -3.849

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3151	.2309	.1553	-.6692	-.5533	-.2058	-.0646	-.0659	-.0763	-.0058	.2615	.4241	-.2823	-.3641	-.4566
45.000		.2600	.1911	-.6645	-.5169	-.0993	-.0775	-.1094	-.1140	-.0286	.2377				
90.000		.3089	.2389	-.6591	-.4651	-.2309	-.1955	-.2319	-.1962	-.0783	.1902		-.5046	-.4960	
135.000		.4144	.3065	-.6284	-.3787	.0225	-.1269	-.1706	-.1950	.0200	.2848				
180.000	1.3151	.5167	.4115	-.6005	-.2393	.1164	-.0892	-.1461	-.1513	.1011	.2998	.6734	-.2148	-.4314	-.5800
225.000		.5330	.5108	-.5802	-.2620	.1729	-.1045	-.1398	-.1456	.1318	.3261				
270.000		.3826	.4977	-.5081	-.3783	-.3278	-.5814	-.1984	-.0798	.0441	.2897	.7159	.0999	.2047	-.3718
315.000		.2307	.1216	-.7221	-.4961	-.4199	-.0902	-.0738	-.0638	.0139	.2531				

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS04)

BETAL (1) =   .066   ALPHAL(2) =   -3.849

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8561	.9120	.9130	.9344	.9565
PHI						
.000	-.1544	-.3404	.0545	-.1450	.0452	-.0478
45.000	-.0849	-.2173			.0204	-.0429
90.000	-.2260	-.1003	.0518	-.0266	.1553	.1178
135.000	-.1016	-.0858			.3175	.2473
180.000	-.1709	-.1526	.3758	-.0388	.2668	.1656
225.000	-.3198	-.3056			-.0317	.0000
270.000	-.3123	-.2707	-.1053	-.2371	-.1912	-.1911
315.000	-.2942	-.3282			-.1452	-.1317

BETAL (1) =   .067   ALPHAL(3) =   -1.842

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3218	.2809	.2137	-.6603	-.5171	-.2080	-.0382	-.0329	-.0584	.0085	.2706	.4544	-.3459	-.2900	-.4290
45.000		.2937	.2358	-.6561	-.4882	-.1175	-.0182	-.0580	-.0901	.0063	.2686				
90.000		.3303	.2731	-.6495	-.4553	-.1203	-.0953	-.1418	-.1388	-.0031	.2511		-.5007	-.5136	
135.000		.3908	.3052	-.6293	-.4103	.0376	-.0507	-.1133	-.1503	.0634	.3304				
180.000	1.3218	.4520	.3666	-.6172	-.3386	.1296	-.0529	-.1250	-.1420	.1252	.3380	.6901	-.2363	-.4562	-.5568
225.000		.4861	.4493	-.6024	-.3329	.1404	-.0914	-.1306	-.1469	.1485	.3439				
270.000		.4214	.5644	-.4807	-.5257	-.3302	-.4370	-.1812	-.0755	.0545	.2812	.7853	.1771	.2793	-.4317
315.000		.3169	.2284	-.6871	-.5041	-.3995	-.0785	-.0606	-.0592	.0210	.2479				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1698	-.3168	.0020	-.1741	.1116	.0408
45.000	-.0674	-.2210			.1236	.0657
90.000	-.1856	-.0951	.0369	.0496	.1651	.1058
135.000	-.0916	-.0893			.2609	.1812
180.000	-.1737	-.1263	.2990	.0091	.2347	.1252
225.000	-.3137	-.2878			-.0608	.0000
270.000	-.3140	-.2606	-.1094	-.2298	-.1861	-.1864
315.000	-.2752	-.3054			-.1646	-.1302

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS04)

BETAL (1) = .067   ALPHAL(4) = .164

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3237	.3200	.2568	-.6508	-.4732	-.1704	-.0223	-.0150	-.0430	.0127	.2764	.4487	-.3189	-.2851	-.4074
45.000		.3202	.2595	-.6481	-.4652	-.1712	.0147	-.0160	-.0642	.0287	.3084		-.4723	-.4925	
90.000		.3316	.2805	-.6444	-.4526	-.0986	.0076	-.0554	-.1017	.0708	.3015				
135.000		.3496	.2834	-.6271	-.4413	.0312	.0196	-.0659	-.1165	.1190	.3480				
180.000	1.3237	.3748	.3061	-.6251	-.4215	.0862	-.0075	-.0998	-.1293	.1603	.3687	.6965	-.2346	-.4313	-.5004
225.000		.4093	.3713	-.6276	-.4338	-.0235	-.0559	-.1080	-.1285	.1758	.3741	.8077	.2596	.3330	-.4220
270.000		.4237	.5911	-.4637	-.5312	-.3575	-.2578	-.1309	-.0589	.0717	.2885				
315.000		.3644	.3101	-.6517	-.4832	-.2982	-.0691	-.0430	-.0446	.0279	.2620				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1399	-.2976	-.0695	-.1187	.1514	.1180
45.000	-.0242	-.2802			.1412	.0847
90.000	-.1367	-.1116	.0360	.0727	.1994	.1300
135.000	-.0747	-.0873			.2412	.1688
180.000	-.1727	-.0948	.2179	.0287	.1779	.0757
225.000	-.3119	-.2727			-.0741	.0000
270.000	-.3054	-.2491	-.1267	-.2175	-.1878	-.1827
315.000	-.2694	-.3134			-.1601	-.1201

BETAL (1) = .067   ALPHAL(5) = 2.192

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3194	.3730	.3032	-.6371	-.4277	-.1288	-.0128	-.0087	-.0266	-.0001	.2911	.5016	-.2422	-.3220	-.4082
45.000		.3500	.2803	-.6433	-.4455	-.1808	.0302	.0067	-.0509	.0168	.3151				
90.000		.3141	.2736	-.6450	-.4575	-.1531	.0548	-.0087	-.0903	.0831	.3046		-.4518	-.4707	
135.000		.3044	.2502	-.6331	-.4704	.0011	.0543	-.0313	-.0883	.1430	.3426	.6558	-.2808	-.4149	-.4663
180.000	1.3159	.3012	.2539	-.6376	-.4834	.0189	.0263	-.0660	-.1101	.1725	.3615				
225.000		.3431	.2842	-.6565	-.4262	-.2039	.0069	-.0599	-.0954	.1806	.3642				
270.000		.4181	.5768	-.4731	-.4339	-.3332	-.0565	-.0456	-.0487	.1028	.2997	.6336	.1963	.2274	-.4472
315.000		.4168	.3895	-.6246	-.4357	-.2160	-.0568	-.0087	-.0153	.0384	.2699				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1053	-.2796	.0515	-.0568	.1727	.1419
45.000	-.0451	-.2024			.2019	.1434
90.000	-.1182	-.0949	.0683	.0814	.1702	.0896
135.000	-.0195	-.0974			.2494	.1676
180.000	-.1381	-.0597	.1803	.0364	.1134	.0037

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS04)

BETAL (1) =   .067   ALPHAL(5) =   2.192

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2680	-.2959			.0031	.0000
270.000	-.2851	-.2589	-.0921	-.1982	-.1548	-.1572
315.000	-.2562	-.3090			-.0983	-.0615

BETAL (1) =   .066   ALPHAL(6) =   4.200

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3077	.4469	.3517	-.6327	-.3710	-.0938	-.0034	.0052	-.0126	-.0126	.3189	.5679	-.2292	-.3138	-.4366
45.000		.3583	.2873	-.6453	-.4278	-.1733	.0252	.0125	-.0504	-.0193	.3447		-.4714	-.4867	
90.000		.2919	.2469	-.6552	-.4678	-.2333	.0444	-.0024	-.1108	.0753	.3231				
135.000		.2628	.2175	-.6489	-.5018	-.0287	.0498	-.0163	-.0865	.1452	.3280				
180.000	1.3077	.2430	.2017	-.6542	-.5254	-.0677	.0293	-.0467	-.0799	.1826	.3396	.5723	-.3025	-.4236	-.4268
225.000		.2611	.1886	-.6959	-.3286	-.3075	.0015	-.0294	-.0483	.1951	.3366				
270.000		.3914	.5359	-.4937	-.4229	-.3075	-.0594	-.0450	-.0365	.1289	.3182	.5432	.0928	.1538	-.4231
315.000		.4704	.4571	-.6031	-.3573	-.1508	-.0260	-.0180	-.0104	.0395	.2951				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0689	-.2479	.1392	-.0028	.2780	.2232
45.000	-.0206	-.1849			.2495	.1859
90.000	-.1049	-.0697	.1348	.0564	.1233	.0225
135.000	.0266	-.1074			.2614	.1705
180.000	-.1084	-.0352	.2288	.0179	.0975	-.0059
225.000	-.2134	-.3064			.0773	.0000
270.000	-.2554	-.2384	-.0152	-.1658	-.1129	-.1268
315.000	-.2314	-.2754			-.0167	.0167

BETAL (1) =   .066   ALPHAL(7) =   5.218

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3010	.4813	.3784	-.6279	-.3587	-.0755	-.0207	.0171	.0012	-.0089	.3401	.5924	-.1968	-.3151	-.4420
45.000		.3720	.2893	-.6484	-.4084	-.1534	-.0027	.0078	-.0516	-.0315	.3571		-.4778	-.4946	
90.000		.2657	.2333	-.6640	-.4714	-.2599	.0215	-.0124	-.1350	.0699	.3332				
135.000		.2344	.1928	-.6526	-.5156	-.0356	.0375	-.0163	-.0777	.1402	.3109				
180.000	1.3010	.2196	.1704	-.6566	-.5326	-.0923	.0256	-.0363	-.0556	.1800	.3037	.5259	-.3580	-.4264	-.3924
225.000		.2368	.1385	-.7096	-.3297	-.2807	-.0029	-.0241	-.0276	.1882	.2900				

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS04)

BETAL (1) =   .066   ALPHAL(7) =   5.218

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
270.000		.3750	.4966	-.5083	-.4201	-.2684	-.0109	-.0251	-.0190	.1408	.2856	.4244	.0081	.0558	-.4454
315.000		.4983	.4820	-.5936	-.3043	-.1186	-.0346	.0100	.0129	.0469	.2936				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0637	-.2255	.1479	.0118	.3014	.2532
45.000	-.0245	-.1901			.2663	.2088
90.000	-.0973	-.0692	.1698	.0362	.1181	.0277
135.000	.0220	-.1021			.1925	.1016
180.000	-.0963	-.0443	.2476	-.0008	.1091	.0110
225.000	-.2175	-.3386			.1025	.0000
270.000	-.2607	-.2345	.0145	-.1559	-.0835	-.1177
315.000	-.2318	-.2554			-.0030	.0309

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS05)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

					MACH	=	1.250	RN/FT	=	2.250
SREF	= 2690.0000 SQ.FT.	XMRP	=	976.0000 IN. XT	ELV-IB	=	.000	ELV-OB	=	.000
LREF	= 1297.0000 INCHES	YMRP	=	.0000 IN. YT	RUDDER	=	.000	SPDBRK	=	55.000
BREF	= 1297.0000 INCHES	ZMRP	=	400.0000 IN. ZT						
SCALE	= .0300 SCALE									

BETAL (1) =   .069   ALPHAL(1) =   -5.882

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3656	.0470	.1187	-.5195	-.4423	-.3316	-.0988	-.1070	-.1220	-.0952	.2337	.4074	-.1553	-.2465	-.4236
45.000		.0856	.1638	-.4966	-.4081	-.2854	-.1878	-.1335	-.1906	-.2567	.1282		-.3304	-.2571	
90.000		.1625	.2271	-.4799	-.3750	-.2876	-.3321	-.3211	-.2912	-.2032	.0500				
135.000		.3065	.3334	-.4395	-.2879	.0122	-.1378	-.2348	-.2687	-.1063	.1405				
180.000	1.3656	.4489	.4742	-.4002	-.1995	.1592	-.0088	-.0747	-.1912	.0999	.1716	.5686	-.0788	-.2181	-.5424
225.000		.4795	.5826	-.3775	-.1671	.1982	.0226	-.0155	-.1533	.1257	.2980				
270.000		.2972	.5323	-.3313	-.1926	-.2744	-.4403	-.1573	-.0844	.0282	.2971	.6689	.1923	.2248	-.5359
315.000		.1042	.0628	-.5792	-.6132	-.4440	-.2067	-.1262	-.0847	-.0456	.2344				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0813	-.3229	.1359	-.2933	.1789	.0422
45.000	-.1033	-.2281			-.0235	-.0992
90.000	-.2035	-.1393	.1011	-.0909	.0342	.0877
135.000	-.0854	-.1786			.3756	.3375
180.000	-.0974	-.2293	.2959	-.0833	.3197	.2387
225.000	-.2451	-.2703			-.0384	.0000
270.000	-.2785	-.2338	-.0934	-.2109	-.1709	-.1647
315.000	-.2306	-.2725			-.0928	-.0738

BETAL (1) =   .070   ALPHAL(2) =   -3.880

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3771	.0783	.1779	-.4902	-.4155	-.2951	-.0767	-.0655	-.0862	-.0760	.2154	.3812	-.1788	-.2023	-.3568
45.000		.1113	.2121	-.4747	-.3787	-.2576	-.1189	-.0880	-.1317	-.1230	.1840		-.3106	-.2703	
90.000		.1680	.2685	-.4602	-.3485	-.2702	-.2229	-.1991	-.2162	-.1476	.1517				
135.000		.2488	.3333	-.4318	-.3020	-.0260	-.0716	-.1732	-.2116	-.0513	.2502				
180.000	1.3771	.3503	.4234	-.4136	-.2451	.1642	.0072	-.0609	-.1584	.1216	.2416	.6536	-.1093	-.2622	-.4981
225.000		.3987	.5313	-.3912	-.2356	.1771	.0081	-.0194	-.1550	.1382	.3213				
270.000		.3453	.6032	-.2922	-.3092	-.3004	-.4426	-.1594	-.0938	.0342	.2683	.7417	.2018	.3245	-.4965
315.000		.0965	.1720	-.5340	-.5324	-.4219	-.1338	-.0856	-.0753	-.0335	.2074				

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS05)

BETAL (1) =   .070   ALPHAL(2) =   -3.880

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1046	-.3340	.1643	-.2300	.0784	-.0055
45.000	-.0471	-.2285			.0046	-.0485
90.000	-.1642	-.1522	.1123	-.0294	.0779	.0968
135.000	-.0281	-.1803			.3083	.3191
180.000	-.0690	-.1774	.1948	.0528	.2851	.2218
225.000	-.2140	-.2681			-.0104	.0000
270.000	-.2635	-.2230	-.0743	-.1985	-.1642	-.1525
315.000	-.2184	-.2662			-.1001	-.0727

BETAL (1) =   .070   ALPHAL(3) =   -1.873

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3850	.1039	.2352	-.4714	-.3881	-.2662	-.0734	-.0380	-.0596	-.0563	.2654	.4128	-.1700	-.1085	-.3211
45.000		.1407	.2549	-.4572	-.3528	-.2237	-.0429	-.0310	-.0923	-.0865	.2451				
90.000		.1740	.2935	-.4479	-.3327	-.2250	-.1157	-.0962	-.1462	-.1043	.2039		-.2847	-.2738	
135.000		.1978	.3222	-.4300	-.3160	-.1011	-.0157	-.1057	-.1655	-.0154	.3282				
180.000	1.3850	.2089	.3710	-.4218	-.2971	.0343	.0230	-.0398	-.1261	.1261	.3230	.7148	-.0708	-.2735	-.4432
225.000		.2614	.4692	-.4133	-.2889	.1206	.0163	.0053	-.1329	.1476	.3651				
270.000		.1996	.6474	-.2735	-.4152	-.3774	-.4307	-.1173	-.0659	.0529	.2922	.8109	.2731	.3656	-.3922
315.000		.1450	.2762	-.4321	-.4499	-.3877	-.1554	-.0981	-.0579	-.0169	.2274				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1011	-.3542	.0827	-.1070	.0699	.0427
45.000	-.0331	-.2675			.1285	.1188
90.000	-.1067	-.1905	.1240	.0192	.1267	.1185
135.000	.0104	-.1959			.2483	.2614
180.000	-.0562	-.1669	.1350	.0748	.2181	.1654
225.000	-.2400	-.2678			-.0502	.0000
270.000	-.2665	-.2271	-.0890	-.1914	-.1526	-.1329
315.000	-.2381	-.2747			-.0924	-.0387

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS05)

BETAL (1) =   .070   ALPHAL(4) =   .113

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3859	.1408	.2841	-.4563	-.3582	-.2332	-.0789	-.0285	-.0432	-.0403	.2594	.4026	-.1774	-.0764	-.2907
45.000		.1655	.2842	-.4544	-.3371	-.2008	-.0294	-.0045	-.0567	-.0683	.2853		-.2657	-.2650	
90.000		.1800	.3000	-.4445	-.3261	-.2087	-.0465	-.0289	-.0906	-.0853	.2622				
135.000		.1701	.3027	-.4341	-.3299	-.1516	-.0029	-.0451	-.1302	.0111	.3509				
180.000	1.3859	.1442	.3231	-.4341	-.3362	-.0732	.0402	-.0338	-.1164	.1349	.3752	.7385	-.0950	-.2703	-.4061
225.000		.1955	.3964	-.4430	-.3568	-.1538	.0112	-.0097	-.1068	.1584	.3910				
270.000		.2017	.6699	-.2653	-.4828	-.3772	-.3499	-.1626	-.0739	.0552	.2354	.7903	.2014	.2961	-.4055
315.000		.1905	.3593	-.4581	-.3807	-.3325	-.1134	-.0930	-.0646	-.0160	.2316				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0931	-.2998	-.0108	-.1546	.1501	.1526
45.000	.0109	-.2599			.1403	.1281
90.000	-.0592	-.2063	.1370	.0274	.1797	.1617
135.000	.0634	-.2145			.2313	.2316
180.000	-.0367	-.1434	.1248	.0726	.1736	.1141
225.000	-.2202	-.2627			-.0166	.0000
270.000	-.2630	-.2174	-.0599	-.1726	-.1372	-.1247
315.000	-.2309	-.2627			-.1045	-.0595

BETAL (1) =   .070   ALPHAL(5) =   2.177

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3826	.2064	.3355	-.4440	-.3262	-.2317	-.0785	-.0346	-.0290	-.0307	.2612	.4334	-.1056	-.1501	-.2959
45.000		.1934	.3057	-.4502	-.3278	-.1826	-.0273	.0027	-.0351	-.0587	.2947		-.2637	-.2603	
90.000		.1786	.2931	-.4477	-.3325	-.2191	.0026	.0109	-.0626	-.0793	.2756				
135.000		.1548	.2739	-.4389	-.3451	-.1923	-.0001	.0054	-.0960	.0340	.3510				
180.000	1.3826	.1116	.2705	-.4487	-.3668	-.1206	.0078	.0118	-.0880	.1347	.3840	.6953	-.1501	-.2427	-.3694
225.000		.1561	.3107	-.4764	-.3982	-.2748	-.0172	.0106	-.0889	.1562	.3827				
270.000		.1968	.6505	-.2774	-.3960	-.3371	-.0892	-.0635	-.0640	.0709	.2301	.6737	.2357	.2666	-.3718
315.000		.2397	.4397	-.4311	-.3097	-.2615	-.0867	-.0498	-.0332	.0075	.2366				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0540	-.2566	.0274	-.0565	.1452	.1477
45.000	-.0098	-.2201			.1556	.1251
90.000	-.0568	-.1867	.0949	.0354	.1809	.1501
135.000	.1054	-.2141			.2096	.2061
180.000	-.0268	-.1357	.1284	.0640	.1385	.0841

ARC11-019 IA81 LVAP(SBHL SEALED) SRM BOOSTER   (RETS05)

BETAL (1) =   .070   ALPHAL(5) =   2.177

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2170	-.2711			.0231	.0000
270.000	-.2560	-.2239	-.0150	-.1557	-.1123	-.1103
315.000	-.2229	-.2626			-.0556	-.0293

BETAL (1) =   .070   ALPHAL(6) =   4.185

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3719	.2695	.3845	-.4334	-.2835	-.2336	-.0661	-.0305	-.0161	-.0203	.2816	.4827	-.0903	-.1378	-.3443
45.000		.2226	.3133	-.4494	-.3134	-.1721	-.0908	-.0116	-.0305	-.0590	.3280				
90.000		.1705	.2639	-.4562	-.3398	-.2609	-.0134	-.0006	-.0600	-.0741	.2991		-.2914	-.3045	
135.000		.1251	.2214	-.4481	-.3580	-.1884	-.0040	.0165	-.0698	.0591	.3348				
180.000	1.3719	.0712	.2118	-.4597	-.3847	-.1862	-.0210	.0280	-.0695	.354	.3711	.5976	-.1851	-.2369	-.3326
225.000		.1032	.2075	-.5087	-.3131	-.3288	-.0539	.0006	-.0680	.1634	.3585				
270.000		.1951	.6124	-.2854	-.3806	-.3008	-.0780	-.0426	-.0526	.0985	.2339	.5324	.1710	.1374	-.4215
315.000		.2975	.5033	-.4016	-.2418	-.2370	-.0399	-.0518	-.0286	.0250	.2412				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0210	-.2254	.1396	-.0078	.2629	.2696
45.000	.0456	-.2046			.2558	.2284
90.000	-.0433	-.1351	.1338	.0273	.1039	.0365
135.000	.1369	-.2166			.2263	.1938
180.000	-.0161	-.1256	.1555	.0496	.1329	.0691
225.000	-.1835	-.2917			.1488	.0000
270.000	-.2266	-.1960	.0618	-.1054	-.0340	-.0721
315.000	-.1904	-.2464			.0560	.0781

BETAL (1) =   .069   ALPHAL(7) =   6.212

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3569	.3986	.4348	-.4216	-.2509	-.1456	-.0600	-.0484	-.0100	-.0081	.3590	.5607	.0386	-.0984	-.3654
45.000		.2677	.3180	-.4531	-.3095	-.1860	-.1384	-.0515	-.0335	-.0644	.3639				
90.000		.1525	.2309	-.4703	-.3662	-.3211	-.0878	-.0615	-.0780	-.0463	.3257		-.3008	-.3229	
135.000		.0846	.1757	-.4705	-.3917	-.2115	-.0271	.0062	-.0586	.0443	.2894				
180.000	1.3569	.0342	.1599	-.4891	-.4062	-.2011	-.0414	.0354	-.0481	.1342	.3239	.4758	-.1996	-.2418	-.2843
225.000		.0549	.1114	-.5521	-.3552	-.2877	-.0722	.0089	-.0370	.1718	.3014				

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(SBHL SEALED)   SRM BOOSTER   (RETS05)

BETAL (1) =   .069   ALPHAL(7) =   6.212

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2862	.5539	-.3167	-.4541	-.2660	-.0862	-.0152	-.0247	.1320	.2703	.4286	.0667	.0861	-.4095
315.000		.4212	.5561	-.3898	-.1910	-.2085	-.0280	-.0225	-.0001	.0421	.2904				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0062	-.2100	.1834	.0090	.3597	.3514
45.000	.0584	-.2015			.2737	.2523
90.000	-.0206	-.1285	.1670	.0044	.0840	.0304
135.000	.1455	-.2321			.1932	.1546
180.000	-.0091	-.1436	.1831	.0197	.1258	.0574
225.000	-.1811	-.3157			.1395	.0000
270.000	-.2220	-.1955	.0779	-.0855	-.0150	-.0601
315.000	-.1785	-.2159			.0993	.1506

BETAL (1) =   .069   ALPHAL(8) =   7.214

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3441	.4428	.4545	-.4174	-.2785	-.0742	-.0741	-.0597	-.0137	-.0096	.3696	.5869	.0726	-.0752	-.3953
45.000		.2883	.3179	-.4541	-.3048	-.1930	-.1680	-.0802	-.0518	-.0732	.3653				
90.000		.1425	.2082	-.4809	-.3780	-.3523	-.1567	-.0927	-.0902	-.0364	.3315		-.3055	-.3351	
135.000		.0608	.1514	-.4783	-.4054	-.2219	-.0402	-.0055	-.0527	.0211	.2657				
180.000	1.3441	.0106	.1357	-.5015	-.4132	-.2143	-.0536	.0320	-.0394	.1419	.3124	.4841	-.1542	-.2397	-.2755
225.000		.0306	.0562	-.5776	-.3743	-.2957	-.0844	.0061	-.0256	.1815	.3075				
270.000		.3019	.5223	-.3284	-.5125	-.2599	-.1356	-.0323	-.0262	.1410	.3131	.4748	.0523	.0976	-.3956
315.000		.4671	.5747	-.3818	-.1763	-.2103	-.0213	-.0207	.0039	.0435	.3220				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0307	-.2035	.1933	.0481	.3635	.3669
45.000	.0538	-.1953			.2714	.2827
90.000	-.0159	-.1440	.2070	-.0251	.1015	.0478
135.000	.1323	-.2290			.1610	.1119
180.000	-.0144	-.1522	.1973	-.0010	.1125	.0417
225.000	-.1872	-.3087			.1122	.0000
270.000	-.2189	-.1912	.0667	-.0831	-.0160	-.0615
315.000	-.1730	-.2284			.1479	.1800

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	976.0000 IN. XT	MACH	=	.600	RN/FT	=	2.250
LREF	=	1297.0000 INCHES	YMRP	=	.0000 IN. YT	ELV-IB	=	8.000	ELV-OB	=	4.000
BREF	=	1297.0000 INCHES	ZMRP	=	400.0000 IN. ZT	RUDDER	=	.000	SPDBRK	=	.000
SCALE	=	.0300 SCALE									

ALPHAL(1) = -6.267   BETAL (1) =   .043

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0343	-.0431	-.3460	-.9936	-.2396	-.2057	-.0801	-.0625	-.0619	-.0759	.0064	.2153	-.5060	-.2959	-.4541
45.000		-.0161	-.3002	-1.2118	-.2292	-.1666	-.1250	-.0921	-.0886	-.1183	-.0663				
90.000		.0313	-.2409	-1.2328	-.2381	-.3256	-.2572	-.2312	-.2237	-.2051	-.0342		-.5865	-.5992	
135.000		.1815	-.1283	-1.2210	-.2030	-.1608	-.1447	-.1252	-.1055	-.1234	-.0088				
180.000	1.0343	.3694	.0334	-1.0081	-.1092	-.0972	-.0766	-.0559	-.0254	-.0412	.0323	.4677	-.5661	-.5453	-.5478
225.000		.3974	.1540	-.7590	-.0774	-.0690	-.0554	-.0253	.0022	-.0007	.1264				
270.000		.1234	-.0639	-.7380	-.1895	-.4117	-.2330	-.1368	-.0877	-.1023	.0852	.6707	-.2012	-.0788	-.4657
315.000		-.0558	-.4462	-1.0663	-.4352	-.4308	-.0917	-.0730	-.0489	-.0541	.0405				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0632	-.1943	.1377	-.2045	.0083	-.1241
45.000	-.0914	-.1129			.0123	-.1006
90.000	-.1307	-.1254	.1402	-.1471	.0728	-.0701
135.000	-.0196	-.1378			.2032	.0142
180.000	.1089	-.2347	.5080	-.1551	.2756	.0178
225.000	-.2021	-.3405			.2691	.0000
270.000	-.2218	-.1808	.2601	-.1301	-.0411	-.0928
315.000	-.2425	-.2379			-.0122	-.1029

ALPHAL(2) = -4.228   BETAL (1) = -4.021

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0786	.0302	-.3031	-1.0434	-.2236	-.1707	-.0850	-.0699	-.0543	-.0573	.0349	.1996	-.4417	-.1942	-.3889
45.000		.0740	-.2334	-1.1905	-.2136	-.1451	-.1128	-.1002	-.0906	-.1022	.0110				
90.000		.1452	-.1433	-1.2095	-.1091	-.2094	-.1930	-.1869	-.1975	-.1925	-.0344		-.5878	-.5904	
135.000		.2567	-.0578	-1.1493	-.1189	-.0655	-.0583	-.0472	-.0257	-.0298	.0691				
180.000	1.0786	.0007	-1.0529		-.0760	-.0436	-.0316	-.0205	.0120	.0191	.0936	.4791	-.5601	-.4961	-.5261
225.000		.3320	.0638	-.9587	-.1137	-.0561	-.0416	-.0184	.0161	.0263	.1706				
270.000		.1824	.0088	-.6831	-.2801	-.3507	-.1738	-.1163	-.0818	-.0992	.0752	.7073	-.1419	.0771	-.3701
315.000		.0465	-.3611	-.9979	-.3251	-.3624	-.0775	-.0512	-.0395	-.0441	.0497				

ALPHAL(2) = -4.228   BETAL (1) = -4.021

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0952	-.1959	-.0500	-.2733	-.0546	-.1448
45.000	-.0535	-.2315			.1022	-.0208
90.000	-.1282	-.1426	.1864	-.0798	.1773	-.0021
135.000	.0416	-.1039			.2489	.0331
180.000	.0625	-.0965	.3926	-.0778	.1783	-.0296
225.000	-.1834	-.3398			.2136	.0000
270.000	-.2420	-.1672	.1682	-.1680	-.1135	-.1519
315.000	-.2718	-.2080			-.1191	-.1677

ALPHAL(2) = -4.165   BETAL (2) = .045

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0705	.0242	-.2954	-1.0714	-.2200	-.1615	-.0648	-.0446	-.0326	-.0498	.0311	.2377	-.4749	-.2723	-.4194
45.000		.0450	-.2518	-1.0652	-.1970	-.1239	-.0809	-.0572	-.0487	-.0661	.0143				
90.000		.0821	-.2041	-1.1816	-.1855	-.2054	-.1639	-.1402	-.1362	-.1297	.0154		-.5594	-.5783	
135.000		.1820	-.1280	-1.2193	-.1704	-.1140	-.1030	-.0854	-.0646	-.0707	.0444				
180.000	1.0705	.3140	-.0133	-1.1096	-.1192	-.0879	-.0738	-.0436	-.0193	-.0182	.0612	.4668	-.5492	-.5390	-.5064
225.000		.3601	.0872	-.9549	-.1229	-.0712	-.0562	-.0265	.0052	.0138	.1385				
270.000		.2033	.0359	-.6601	-.2816	-.3500	-.1573	-.0944	-.0651	-.0773	.0932	.6566	-.1995	-.0407	-.4464
315.000		.0425	-.3456	-1.0495	-.3416	-.3907	-.0733	-.0487	-.0386	-.0427	.0428				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0758	-.1722	.0990	-.1550	.0525	-.0747
45.000	-.0442	-.1020			.0879	-.0439
90.000	-.0951	-.0732	.1475	-.0919	.1101	-.0490
135.000	-.0120	-.0936			.1823	.0020
180.000	.0760	-.1832	.4433	-.1368	.2383	.0025
225.000	-.1900	-.3298			.2469	.0000
270.000	-.2214	-.1732	.2282	-.1196	-.0500	-.1016
315.000	-.2298	-.2355			-.0358	-.1031

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(2) =   -4.113   BETAL (3) =   4.125

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0516	-.0044	-.2977	-1.0814	-.2318	-.1731	-.0573	-.0427	-.0341	-.0461	.0161	.2507	-.4988	-.3022	-.4489
45.000		.0053	-.2921	-1.0809	-.1956	-.1108	-.0634	-.0417	-.0366	-.0512	.0100				
90.000		.0190	-.2625	-1.1524	-.1967	-.1988	-.1290	-.0911	-.0785	-.0686	.0334		-.5553	-.5543	
135.000		.0959	-.2177	-1.2388	-.2360	-.1763	-.1512	-.1254	-.0972	-.1048	.0090				
180.000	1.0516	.2716	-.0578	-1 1722	-.1773	-.1527	-.1209	-.0906	-.0512	-.0482	.0125	.4803	-.5804	-.5737	-.5079
225.000		.3856	.1051	-.9278	-.1375	-.0935	-.0714	-.0402	-.0063	.0018	.0998				
270.000		.2313	.0521	-.6362	-.2873	-.3538	-.1456	-.0861	-.0482	-.0599	.1089	.6478	-.1648	.0638	-.4535
315.000		.0455	-.3384	-1.1528	-.3528	-.4010	-.0684	-.0543	-.0400	-.0482	.0282				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0314	-.1589	.2056	-.0916	.2555	.0441
45.000	.0369	-.1573			.1047	-.0659
90.000	-.0604	-.0179	.1773	-.0896	.0441	-.0856
135.000	-.0473	-.0913			.1132	-.0309
180.000	.0801	-.2694	.4342	-.2077	.1718	-.0258
225.000	-.1741	-.3360			.0729	.0000
270.000	-.2186	-.1798	.1753	-.0866	-.0280	-.1156
315.000	-.2228	-.2401			.0567	-.0120

ALPHAL(3) =   -.064   BETAL (1) =   -6.063

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1035	.1742	-.1839	-1.1348	-.1753	-.0890	-.0440	-.0294	-.0169	-.0157	.0764	.2652	-.3997	-.2972	-.3895
45.000		.2063	-.1256	-1.2267	-.1485	-.0674	-.0405	-.0290	-.0209	-.0259	.0790				
90.000		.2390	-.0632	-1.1110	-.0987	-.0506	-.0213	-.0199	-.0194	.0027	.0846		-.5511	-.5608	
135.000		.2390	-.0704	-1.1440	-.0888	-.0280	-.0061	-.0017	.0262	.0549	.1364				
180.000	1.1035	.2236	-.1000	-1.0962	-.0867	-.0301	-.0162	-.0017	.0359	.0799	.1446	.4279	-.4379	-.4247	-.4298
225.000		.2374	-.0944	-1.1451	-.1731	-.0396	-.0162	-.0037	.0390	.0800	.1927				
270.000		.2537	.0932	-.7718	-.4705	-.1389	-.0486	-.0260	.0068	-.0071	.1015	.6481	-.0688	.1668	-.3013
315.000		.1966	-.1971	-1.1991	-.2614	-.1396	-.0643	-.0361	-.0137	-.0194	.0597				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0749	-.2383	.0087	-.2664	.0486	-.0837
45.000	.0322	-.2200			.2617	.0587
90.000	-.0157	-.0328	.2501	-.0251	.2466	.0431
135.000	.0935	-.0490			.2562	.0407
180.000	.0563	-.0034	.3819	-.0609	.1016	-.0692

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(3) =   -.064   BETAL (1) =   -6.063

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1555	-.3956			.2435	.0000
270.000	-.2173	-.1665	.1976	-.1629	-.1059	-.1351
315.000	-.2394	-.2137			-.1266	-.1545

ALPHAL(3) =   -.060   BETAL (2) =   -4.038

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				
90.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000		.0000	.0000	
135.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
225.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				
270.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
315.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0000	.0000	.0000	.0000	.0000	.0000
45.000	.0000	.0000			.0000	.0000
90.000	.0000	.0000	.0000	.0000	.0000	.0000
135.000	.0000	.0000			.0000	.0000
180.000	.0000	.0000	.0000	.0000	.0000	.0000
225.000	.0000	.0000			.0000	.0000
270.000	.0000	.0000	.0000	.0000	.0000	.0000
315.000	.0000	.0000			.0000	.0000

ALPHAL(3) =   -.051   BETAL (3) =   .017

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0956	.1390	-.2020	-1.2017	-.2027	-.0973	-.0461	-.0320	-.0216	-.0248	.0542	.2798	-.4715	-.3804	-.3738
45.000		.1253	-.1878	-1.1693	-.1693	-.0842	-.0446	-.0272	-.0201	-.0227	.0619				
90.000		.1329	-.1664	-1.2161	-.1400	-.0858	-.0466	-.0413	-.0347	-.0115	.0639			-.5377	-.5459
135.000		.1563	-.1516	-1.1649	-.1400	-.0732	-.0532	-.0388	-.0100	.0033	.0854				
180.000	1.0956	.1939	-.1241	-1.1943	-.1426	-.0816	-.0597	-.0428	-.0018	.0201	.0843	.4366	-.4995	-.5092	-.4522
225.000		.2564	-.0783	-1.2189	-.2111	-.0748	-.0572	-.0393	.0043	.0348	.1211				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(3) =   -.051   BETAL (3) =   .017

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2742	.1143	-.8009	-.5078	-.1613	-.0638	-.0352	-.0018	.0026	.1032	.4753	-.1971	-.0760	-.4089
315.000		.1990	-.1939	-1.3001	-.3107	-.1747	-.0718	-.0448	-.0232	-.0229	.0376				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0867	-.1685	.1300	-.1045	.1765	.0037
45.000	.0319	-.1339			.1931	.0183
90.000	-.0210	.0135	.1957	-.0292	.1648	-.0160
135.000	.0098	-.0369			.1618	-.0154
180.000	.0255	-.0683	.3341	-.0913	.1285	-.0430
225.000	-.1564	-.3363			.1972	.0000
270.000	-.2115	-.1811	.1497	-.0989	-.0398	-.0757
315.000	-.2225	-.2173			-.0226	-.0655

ALPHAL(3) =   -.038   BETAL (4) =   4.091

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0819	.1106	-.2156	-1.2626	-.2253	-.1097	-.0548	-.0437	-.0266	-.0342	.0503	.3942	-.5118	-.4504	-.3901
45.000		.0700	-.2323	-1.1266	-.1808	-.0867	-.0487	-.0362	-.0281	-.0250	.0676				
90.000		.0745	-.2196	-1.0609	-.1578	-.0883	-.0467	-.0372	-.0301	-.0143	.0463		-.5179	-.5260	
135.000		.0862	-.2100	-1.1470	-.1672	-.1019	-.0805	-.0593	-.0255	-.0092	.0636				
180.000	1.0819	.1629	-.1475	-1.2569	-.1834	-.1244	-.0956	-.0674	-.0276	-.0046	.0503	.4602	-.5123	-.5123	-.4793
225.000		.2691	-.0530	-1.2255	-.2258	-.0930	-.0754	-.0513	-.0072	.0218	.0916				
270.000		.3021	.1375	-.7430	-.5138	-.1552	-.0739	-.0493	-.0072	.0050	.1053	.3825	-.2008	-.1237	-.3794
315.000		.2132	-.1617	-1.3375	-.3183	-.1826	-.0669	-.0387	-.0220	-.0250	.0432				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0426	-.0996	.2738	-.0113	.2683	.0636
45.000	.0137	-.0536			.1521	-.0124
90.000	-.0081	.0179	.2527	-.0506	.0943	-.0506
135.000	-.0145	-.0437			.0882	-.0509
180.000	.0586	-.1596	.3377	-.1627	.1340	-.0306
225.000	-.1648	-.3130			.0993	.0000
270.000	-.2045	-.1674	.1426	-.0808	-.0294	-.1145
315.000	-.2065	-.2258			.1360	.0574

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(3) =   -.038   BETAL (5) =   6.129

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0705	.0947	-.2254	-1.2909	-.2379	-.1147	-.0634	-.0482	-.0308	-.0413	.0549	.4067	-.5285	-.4780	-.3985
45.000		.0447	-.2620	-1.1226	-.1901	-.0948	-.0498	-.0384	-.0283	-.0280	.0646				
90.000		.0472	-.2401	-1.0557	-.1612	-.0880	-.0508	-.0364	-.0303	-.0157	.0386		-.5280	-.5489	
135.000		.0620	-.2376	-1.1489	-.1849	-.1147	-.0877	-.0617	-.0280	-.0147	.0605				
180.000	1.0705	.1458	-.1551	-1.2861	-.2069	-.1451	-.1115	-.0809	-.0398	-.0126	.0329	.4510	-.5423	-.5448	-.4887
225.000		.2760	-.0435	-1.2219	-.2285	-.0933	-.0027	-.0591	-.0142	.0166	.0748				
270.000		.3143	.1547	-.7140	-.5125	-.1588	-.0786	-.0536	-.0147	.0028	.1075	.3644	-.2273	-.1356	-.3960
315.000		.2188	-.1489	-1.3255	-.3165	-.1758	-.0660	-.0314	-.0198	-.0258	.0469				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0270	-.0603	.3705	.0208	.3033	.0855
45.000	.0601	-.0572			.1765	.0062
90.000	.0030	-.0031	.2937	-.0853	.1376	-.0246
135.000	-.0021	-.0577			.0683	-.0656
180.000	.0755	-.1621	.3109	-.1651	.0678	-.0661
225.000	-.1579	-.3383			.0800	.0000
270.000	-.2151	-.1621	.1275	-.0868	-.0534	-.1627
315.000	-.2046	-.2345			.2907	.1371

ALPHAL(4) =   4.193   BETAL (1) =   -4.026

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0824	.2851	-.0769	-1.1887	-.1504	-.0493	-.0142	-.0036	.0131	.0093	.1075	.3740	.4767	-.3660	-.3726
45.000		.2404	-.0777	-1.1964	-.1326	-.0493	-.0188	-.0040	.0036	.0083	.1304				
90.000		.1804	-.1142	-1.1795	-.1326	-.0931	-.0596	-.0543	-.0458	.0139	.1273		-.4894	-.4970	
135.000		.1224	-.1685	-1.1089	-.1347	-.0629	-.0415	-.0282	.0067	.0567	.1344				
180.000	1.0824	.0970	-.2106	-.9790	-.1310	-.0639	-.0364	-.0146	.0256	.0816	.1146	.3898	-.4223	-.4340	-.3685
225.000		.1148	-.2441	-1.0350	-.2247	-.1396	-.0526	-.0241	.0307	.0978	.1441				
270.000		.2302	.0695	-.7061	-.4658	-.1704	-.0576	-.0261	.0302	.0531	.1019	.4340	-.1354	.0236	-.2573
315.000		.3004	-.0320	-1.2094	-.2121	-.0793	-.0152	-.0115	.0083	.0139	.0790				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0282	-.1864	.1773	-.1423	.2080	.0082
45.000	.0409	-.1357			.2875	.0726
90.000	.0155	.0257	.3026	-.0215	.2105	.0223
135.000	.0681	-.0134			.1436	-.0147
180.000	.0529	-.0140	.2890	-.0774	.0676	-.0864

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(4) =   4.193   BETAL (1) =   -4.026

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1321	-.3432			.1909	.0000
270.000	-.1718	-.1728	.1486	-.1403	-.0774	-.1002
315.000	-.2157	-.1890			-.0668	-.0956

ALPHAL(4) =   4.182   BETAL (2) =   .019

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0727	.2579	-.0923	-1.2350	-.1703	-.0709	-.0287	-.0197	-.0101	-.0125	.0880	.4022	-.4992	-.4339	-.3949
45.000		.1693	-.1505	-1.0969	-.1662	-.0829	-.0493	-.0367	-.0272	-.0176	.0991				
90.000		.1106	-.1758	-1.1353	-.1500	-.1115	-.0738	-.0688	-.0453	.0042	.0956		-.4850	-.4967	
135.000		.0894	-.2112	-1.0405	-.1469	-.0735	-.0447	-.0357	-.0024	.0321	.0930				
180.000	1.0727	.0793	-.2204	-1.0498	-.1532	-.0954	-.0538	-.0392	.0058	.0474	.0829	.3404	-.4582	-.4491	-.3716
225.000		.1203	-.2431	-1.1009	-.2708	-.1672	-.0688	-.0412	.0179	.0677	.1149				
270.000		.2508	.0858	-.7206	-.5247	-.1641	-.0723	-.0412	.0129	.0296	.1108	.3845	-.1665	-.0657	-.3270
315.000		.3146	-.0169	-1.2259	-.2302	-.0899	-.0252	-.0162	.0012	-.0049	.0634				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0288	-.1309	.2730	-.0341	.2790	.0633
45.000	.0092	-.0799			.2384	.0422
90.000	.0077	.0399	.3156	-.0386	.1084	-.0356
135.000	.0810	-.0487			.1350	-.0257
180.000	.0373	-.0216	.3272	-.0883	.0833	-.0648
225.000	-.1341	-.3544			.1937	.0000
270.000	-.1992	-.1846	.1767	-.0757	.0091	-.0414
315.000	-.2184	-.2091			.0748	.0037

ALPHAL(4) =   4.163   BETAL (3) =   4.099

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0555	.2314	-.1136	-1.2749	-.1978	-.0943	-.0555	-.0500	-.0369	-.0413	.0666	.4595	-.5230	-.4460	-.4409
45.000		.0983	-.2214	-1.1204	-.2056	-.1163	-.0837	-.0736	-.0636	-.0505	.0804				
90.000		.0474	-.2356	-1.0634	-.1591	-.1204	-.0787	-.0630	-.0399	-.0031	.0758		-.4890	-.5008	
135.000		.0454	-.2473	-1.0285	-.1560	-.0807	-.0545	-.0389	-.0042	.0228	.0712				
180.000	1.0555	.0495	-.2325	-1.1603	-.1878	-.1251	-.0761	-.0550	-.0128	.0366	.0687	.3506	-.4450	-.4719	-.4074
225.000		.1191	-.2254	-1.1033	-.2960	-.1789	-.0822	-.0474	.0091	.0585	.1033				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(4) =   4.163   BETAL (3) =   4.099

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2746	.1135	-.6743	-.5352	-.1654	-.0726	-.0484	.0005	.0228	.1165	.3653	-.1815	-.1134	-.3490
315.000		.3427	.0098	-1.2089	-.2296	-.0852	-.0238	-.0172	-.0026	-.0072	.0704				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0303	-.1053	.4232	.0042	.3569	.1073
45.000	-.0007	-.0573			.1491	-.0196
90.000	.0059	.0267	.3408	-.0711	.0605	-.0774
135.000	.0418	-.0641			.1189	-.0340
180.000	.0376	-.0750	.2644	-.1169	.0665	-.0675
225.000	-.1387	-.3282			.1587	.0000
270.000	-.1898	-.1489	.2127	-.0259	.0404	-.0939
315.000	-.2211	-.2085			.2558	.1127

ALPHAL(5) =   8.375   BETAL (1) =   .050

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	.9873	.3805	.0227	-1.0214	-.1266	-.0557	-.0223	-.0168	-.0013	-.0048	.1032	.4942	-.5318	-.4972	-.4157
45.000		.1765	-.1400	-1.1237	-.2003	-.1321	-.1039	-.0926	-.0805	-.0562	.0823		-.4620	-.4585	
90.000		.0111	-.2458	-1.2352	-.2222	-.2955	-.2236	-.2041	-.1350	-.0200	.1001				
135.000		-.0219	-.2824	-1.0935	-.1809	-.1164	-.0757	-.0598	-.0190	.0079	.0435				
180.000	.9873	-.0275	-.2956	-.9114	-.1642	-.1363	-.0430	-.0306	.0130	.0761	.0889	.3317	-.3749	-.3703	-.3897
225.000		-.0625	-.3989	-.9982	-.3427	-.3432	-.0515	-.0422	.0181	.0843	.1109				
270.000		.1227	-.0709	-.6132	-.5013	-.3112	-.1552	-.1274	-.0378	.0466	.2056	.4514	-.3235	.4560	-.3642
315.000		.3921	.1366	-.8706	-.1269	-.0727	.0008	.0118	.0268	.0272	.1259				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0474	-.1255	.4204	.0044	.3861	.1150
45.000	.0413	-.1103			.2594	.0403
90.000	-.0020	-.0024	.3603	-.0839	.0534	-.0819
135.000	.0511	-.0595			.0463	-.0886
180.000	.0883	-.0987	.3416	-.1288	.1210	-.0620
225.000	-.1066	-.2690			.1120	.0000
270.000	-.1915	-.1501	.0655	-.0677	-.0051	-.0937
315.000	-.2082	-.2145			.2190	.0524

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS06)

ALPHAL(6) =   10.486   BETAL (1) =   .094

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	.9220	.4413	.0868	-.8394	-.1054	-.0356	-.0137	-.0096	.0003	-.0057	.1044	.5142	-.5596	-.4671	-.4529
45.000		.1634	-.1332	-1.1942	-.2270	-.1715	-.1390	-.1369	-.1263	-.0911	.0610		-.4554	-.4539	
90.000		-.0648	-.2973	-1.3097	-.2786	-.4047	-.3207	-.2776	-.1899	-.0352	.1008	.0177			
135.000		-.0947	-.3324	-1.0267	-.2051	-.1522	-.1068	-.0774	-.0713	-.0998	.0829	.3445	-.3492	-.3831	-.4035
180.000	.9220	-.0892	-.3182	-.8706	-.1743	-.1674	-.0524	-.0305	.0030	.0742	.0829				
225.000		-.1693	-.4854	-.9416	-.4314	-.3608	-.0630	-.0496	.0228	.0931	.1166				
270.000		.0239	-.1977	-.6298	-.5768	-.3446	-.2165	-.1641	-.0632	.0452	.2150	.5066	-.3507	.5295	-.4127
315.000		.4220	.2094	-.6298	-.0644	-.0459	.0221	.0291	.0457	.0442	.1331				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1109	-.1296	.5410	-.0017	.4483	.1386
45.000	.0569	-.1296			.2577	.0300
90.000	-.0231	.0022	.4095	-.0914	.0234	-.1079
135.000	.0268	-.0658			.0275	-.1108
180.000	.0906	-.1186	.3248	-.1317	.1280	-.0502
225.000	-.1108	-.2258			.1113	.0000
270.000	-.1887	-.1483	.0341	-.0632	-.0003	-.1124
315.000	-.1845	-.2436			.2815	.0781

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)   (17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

MACH   =   .900   RN/FT =   2.250
ELV-IB =   8.000   ELV-OB =   4.000
RUDDER =   .000   SPDBRK =   .000

ALPHAL(1) = -11.551   BETAL (1) =   -3.891

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1753	.0904	-.1322	-1.1640	-.5015	-.2546	-.1730	-.0897	-.0600	-.0599	.0692	.2243	-.4877	-.2869	-.5001
45.000		.1118	-.0800	-1.1692	-.8426	-.2067	-.2387	-.1592	-.1146	-.0992	.0479				
90.000		.1989	.0157	-1.1399	-.5482	-.3338	-.3546	-.2829	-.2406	-.2332	-.0259		-.6662	-.6752	
135.000		.3608	.1325	-1.0819	-.1015	-.1246	-.1886	-.0964	-.0300	-.0285	.1167				
180.000	1.1753	.4809	.2237	-1.0302	.0429	-.0463	-.1440	-.0400	.0426	.0632	.2095	.5844	-.1787	-.5707	-.6625
225.000		.4580	.3119	-1.0137	.0149	-.0260	-.1581	-.0262	.0550	.0782	.3143				
270.000		.2339	.2102	-.9054	-.2148	-.4487	-.3591	-.1102	-.0394	-.0839	.1205	.8071	.1235	.2171	-.5786
315.000		.0833	-.2219	-1.2350	-.5494	-.4824	-.1548	-.0515	-.0120	-.0184	.1190				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1749	-.2669	-.0830	-.2536	-.1432	-.2242
45.000	-.1907	-.1526			-.0681	-.1068
90.000	-.2238	-.1775	.0396	-.1436	.1132	-.0146
135.000	-.1630	-.1499			.3444	.1533
180.000	-.0694	-.2109	.5105	-.0696	.2905	.0863
225.000	-.3106	-.2623			.2199	.0000
270.000	-.2623	-.2393	.1288	-.2651	-.1852	-.1808
315.000	-.2995	-.2604			-.1885	-.2100

ALPHAL(1) =   -8.993   BETAL (2) =   -1.869

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1718	.0838	-.1289	-1.1593	-.5217	-.2485	-.1522	-.0724	-.0486	-.0517	.0535	.2646	-.5091	-.3918	-.5659
45.000		.1019	-.0065	-1.1642	-.8777	-.1814	-.2112	-.1281	-.0991	-.0996	.0142				
90.000		.1641	-.0126	-1.1458	-.7302	-.3328	-.3408	-.2472	-.2023	-.1947	.0026		-.6640	-.6715	
135.000		.3266	.1015	-1.0950	-.1784	-.1730	-.2201	-.1184	-.0517	-.0621	.0992				
180.000	1.1718	.4782	.2231	-1.0352	.0109	-.0887	-.1763	-.0490	.0281	.0363	.1797	.5706	-.1915	-.5783	-.6520
225.000		.4786	.3259	-1.0072	.0033	-.0435	-.1707	-.0293	.0475	.0603	.2804				
270.000		.2448	.2167	-.9068	-.2102	-.4451	-.3285	-.0909	-.0255	-.0535	.1598	.7623	.0913	.1450	-.5460
315.000		.0820	-.2250	-1.2371	-.5474	-.4819	-.1667	-.0482	-.0086	-.0154	.1138				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(1) = -8.993   BETAL (2) = -1.869

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1535	-.2730	.0306	-.2420	-.0946	-.2012
45.000	-.1971	-.1430			-.0831	-.1384
90.000	-.2095	-.1319	.0176	-.1666	.0740	-.0444
135.000	-.1917	-.1925			.3333	.1408
180.000	-.0514	-.2324	.5186	-.1009	.2716	.0842
225.000	-.3171	-.2462			.1713	.0000
270.000	-.2596	-.2427	.1078	-.2565	-.1874	-.2108
315.000	-.2987	-.2569			-.1637	-.1838

ALPHAL(1) = -6.417   BETAL (3) =   .183

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1657	.0670	-.1345	-1.1742	-.5442	-.2593	-.1476	-.06l4	-.0373	-.0457	.0614	.2960	-.5305	-.4598	-.6325
45.000		.0900	-.0976	-1.1712	-.8908	-.1658	-.1839	-.1008	-.0967	-.1412	-.0543				
90.000		.1264	-.0435	-1.1645	-.8135	-.3405	-.3198	-.2237	-.1709	-.1637	.0304		-.6757	-.6795	
135.000		.2805	.0569	-1.1103	-.2585	-.2321	-.2712	-.1372	-.0779	-.0936	.0727				
180.000	1.1657	.4678	.2125	-1.0482	-.0387	-.1333	-.2140	-.0715	.0034	.0098	.1360	.5537	-.2194	-.6325	-.6644
225.000		.4948	.3403	-.9950	-.0126	-.0605	-.1880	-.0366	.0420	.0472	.2255				
270.000		.2497	.2155	-.9134	-.2026	-.4424	-.2975	-.0744	-.0120	-.0401	.1761	.7192	.0515	.0838	-.5670
315.000		.0674	-.2299	-1.2386	-.5584	-.4839	-.1639	-.0503	-.0150	-.0165	.0993				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0907	-.3278	.1872	-.3184	.0680	-.0984
45.000	-.2149	-.1475			-.0776	-.1519
90.000	-.2344	-.1015	.0502	-.1675	.0134	-.0847
135.000	-.2221	-.2087			.2976	.1199
180.000	-.0211	-.2030	.4358	-.0999	.1988	.0427
225.000	-.2662	-.2512			-.0108	.0000
270.000	-.2712	-.2654	-.0721	-.2381	-.1904	-.1944
315.000	-.2095	-.2823			-.1568	-.1498

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(1) = -6.393   BETAL (4) = 2.259

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1595	.0709	-.1315	-1.1662	-.5617	-.2647	-.1380	-.0475	-.0260	-.0397	.0591	.3340	-.5594	-.4994	-.6659
45.000		.0836	-.0966	-1.1669	-.7270	-.1426	-.1562	-.0757	-.0709	-.1455	-.0371		-.6681	-.6685	
90.000		.1005	-.0715	-1.1673	-.8457	-.3336	-.2849	-.1944	-.1302	-.1283	.0632				
135.000		.2451	.0180	-1.1224	-.3382	-.2842	-.2945	-.1640	-.0995	-.1175	.0576	.5512	-.2072	-.6220	-.6100
180.000	1.1595	.4633	.2095	-1.0443	-.0914	-.1775	-.2356	-.0894	-.0120	-.0064	.0849				
225.000		.5213	.3613	-.9681	-.0236	-.0726	-.1881	-.0382	.0381	.0445	.1705	.7203	.0538	.1767	-.5078
270.000		.2665	.2242	-.9069	-.1943	-.4220	-.2689	-.0620	-.0019	-.0285	.1698				
315.000		.0701	-.2233	-1.2349	-.5705	-.4863	-.1643	-.0427	-.0120	-.0202	.0790				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0297	-.3599	.2762	-.3111	.3062	.0704
45.000	-.2133	-.1605			-.0386	-.1347
90.000	-.2568	-.0863	.1004	-.1168	-.0257	-.1070
135.000	-.2529	-.2327			.2560	.0956
180.000	-.0409	-.2468	.4080	-.1409	.1218	.0005
225.000	-.2877	-.2431			-.0915	.0000
270.000	-.2590	-.2435	-.1368	-.2352	-.1750	-.1835
315.000	-.2938	-.2778			-.1077	-.0913

ALPHAL(1) = -6.365   BETAL (5) = 4.311

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1498	.0661	-.1396	-1.1640	-.5552	-.2720	-.1206	-.0402	-.0107	-.0252	.0476	.3268	-.5482	-.4775	-.6424
45.000		.0804	-.1046	-1.1670	-.5663	-.1230	-.1206	-.0459	-.0378	-.1024	.0004		-.6184	-.6252	
90.000		.0782	-.0926	-1.1737	-.8681	-.3225	-.2485	-.1454	-.0908	-.0942	.0809				
135.000		.2027	-.0187	-1.1422	-.4085	-.3218	-.3080	-.1791	-.1148	-.1365	.0311	.5560	-.4603	-.5036	-.6008
180.000	1.1498	.4532	.1971	-1.0417	-.1521	-.2176	-.2433	-.1105	-.0282	-.0214	.0184				
225.000		.5397	.3783	-.9246	-.0333	-.0801	-.1834	-.0419	.0363	.0431	.1239	.7354	.0668	.3438	-.4863
270.000		.2828	.2323	-.8988	-.1716	-.4068	-.2555	-.0526	.0052	-.0127	.1673				
315.000		.0661	-.2191	-1.2413	-.5420	-.4694	-.1663	-.0393	-.0076	-.0142	.0548				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0341	-.3417	.2711	-.1665	.3750	.1348
45.000	-.2098	-.1785			.0151	-.1025
90.000	-.2488	-.0804	.1379	-.0937	-.0250	-.1151
135.000	-.2451	-.2501			.1674	.0064
180.000	-.0287	-.3168	.2618	-.1887	-.0068	-.0994

DATE 21 OCT 75   IA8IA - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(1) =   -6.365   BETAL (5) =   4.311

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2930	-.2510			-.1099	.0000
270.000	-.2566	-.2418	-.1784	-.2322	-.1836	-.2083
315.000	-.2984	-.2804			-.0750	-.0583

ALPHAL(2) =   -4.387   BETAL (1) =   -6.009

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2090	.1519	-.0746	-1.1381	-.5546	-.2412	-.1479	-.0871	-.0398	-.0214	.1220	.2226	-.4597	-.1289	-.4597
45.000		.1916	-.0074	-1.1340	-.8539	-.1521	-.1860	-.1281	-.0923	-.0845	.0844				
90.000		.2786	.0909	-1.1008	-.7182	-.2168	-.2604	-.2063	-.1724	-.1588	.0308		-.6723	-.6854	
135.000		.3783	.1604	-1.0676	-.1407	-.0408	-.1053	-.0509	.0215	.0436	.1805				
180.000	1.2090	.4222	.1847	-1.0646	.0505	-.0031	-.1019	-.0317	.0593	.1093	.2579	.5767	-.2011	-.5915	-.6506
225.000		.4102	.2523	-1.0496	.0277	-.0119	-.1212	-.0258	.0656	.1198	.3480				
270.000		.2914	.2953	-.8734	-.4683	-.4100	-.2734	-.0690	-.0042	-.0336	.1146	.8168	.1751	.2679	-.5903
315.000		.1736	-.1049	-1.1831	-.5769	-.4568	-.1164	-.0391	-.0020	.0078	.1395				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1386	-.2666	-.1589	-.3196	-.1611	-.2357
45.000	-.1726	-.1857			.0229	-.0299
90.000	-.2119	-.1567	.0495	-.0410	.1892	.0421
135.000	-.1091	-.0671			.3325	.1500
180.000	-.0923	-.1503	.4844	-.0347	.2546	.0661
225.000	-.3184	-.3367			.2346	.0000
270.000	-.2921	-.2502	.1437	-.2605	-.1965	-.2053
315.000	-.3020	-.2734			-.2109	-.2292

ALPHAL(2) =   -4.345   BETAL (2) =   -3.973

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2112	.1499	-.0697	-1.1326	-.5705	-.2348	-.1402	-.0736	-.0344	-.0171	.1107	.2073	-.4596	-.1980	-.4792
45.000		.1817	-.0166	-1.1356	-.8651	-.1367	-.1705	-.1080	-.0729	-.0581	.0920				
90.000		.2513	.0620	-1.1109	-.8045	-.2195	-.2611	-.1890	-.1568	-.1456	.0432		-.6756	-.6846	
135.000		.3505	.1331	-1.0719	-.3042	-.0737	-.1491	-.0721	.0008	.0220	.1643				
180.000	1.2112	.4264	.1847	-1.0605	.0220	-.0371	-.1350	-.0436	.0417	.0898	.2366	.5760	-.2085	-.5868	-.6445
225.000		.4309	.2670	-1.0391	.0236	-.0360	-.1461	-.0348	.0559	.1032	.3256				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(2) = -4.345   BETAL (2) = -3.973

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3044	.3063	-.8625	-.4511	-.4282	-.2881	-.0636	.0052	-.0123	.1595	.7920	.1347	.2701	-.4755
315.000		.1731	-.1056	-1.1815	-.5568	-.4886	-.1291	-.0411	-.0022	.0075	.1392				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1548	-.2416	-.1280	-.2804	-.1443	-.2141
45.000	-.1817	-.1550			-.0072	-.0531
90.000	-.2053	-.1409	-.0023	-.0663	.1472	.0117
135.000	-.1520	-.1073			.3323	.1471
180.000	-.0821	-.1821	.4887	-.0607	.2705	.0815
225.000	-.3111	-.2789			.1764	.0000
270.000	-.2699	-.2377	.0757	-.2386	-.1822	-.1925
315.000	-.2985	-.2533			-.1982	-.2227

ALPHAL(2) = -4.283   BETAL (3) = .133

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1972	.1258	-.0845	-1.1651	-.5456	-.2265	-.1112	-.0456	-.0206	-.0211	.0856	.2940	-.5013	-.4033	-.5679
45.000		.1481	-.0502	-1.1594	-.9192	-.1089	-.1339	-.0650	-.0381	-.0579	.0559				
90.000		.1831	-.0012	-1.1530	-.8377	-.2262	-.2327	-.1373	-.1022	-.0985	.0649		-.6463	-.6697	
135.000		.2841	.0636	-1.1137	-.4084	-.1504	-.2043	-.1000	-.0350	-.0369	.1179				
180.000	1.1972	.4111	.1673	-1.0822	-.0520	-.1143	-.1883	-.0709	.0086	.0315	.1596	.5525	-.2281	-.6015	-.6237
225.000		.4567	.2856	-1.0465	-.0113	-.0720	-.1771	-.0463	.0375	.0642	.2302				
270.000		.3233	.3105	-.8816	-.4449	-.4126	-.2304	-.0560	.0010	-.0046	.1795	.6908	.0431	.0329	-.5573
315.000		.1635	-.1143	-1.2071	-.5248	-.4968	-.1309	-.0408	-.0068	-.0072	.1008				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0893	-.2870	.1203	-.2096	-.0357	-.1290
45.000	-.1911	-.1036			-.0217	-.0958
90.000	-.2111	-.0686	.0257	-.0864	.0395	-.0571
135.000	-.1982	-.1313			.2531	.0979
180.000	-.0144	-.2374	.4591	-.1042	.2143	.0525
225.000	-.2554	-.2623			-.0280	.0000
270.000	-.2620	-.2527	-.0789	-.2394	-.1965	-.1880
315.000	-.2854	-.2773			-.1745	-.1588

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(2) = -4.247   BETAL (4) =   4.233

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1834	.1225	-.0864	-1.1592	-.6032	-.2444	-.0972	-.0285	-.0088	-.0112	.0592	.2997	-.5386	-.4668	-.5972
45.000		.1221	-.0702	-1.1491	-.7523	-.1011	-.0950	-.0329	-.0114	-.0236	.0588				
90.000		.1330	-.0522	-1.1611	-.9033	-.2211	-.1767	-.0924	-.0456	-.0438	.1015		-.6235	-.6235	
135.000		.2153	-.0045	-1.1310	-.6143	-.2345	-.2396	-.1281	-.0607	-.0693	.0768				
180.000	1.1834	.3935	.1530	-1.0804	-.1517	-.1946	-.2284	-.1076	-.0176	.0075	.0528	.5693	-.4536	-.4933	-.5524
225.000		.4987	.3213	-1.0199	-.0601	-.0900	-.1745	-.0552	.0277	.0543	.1383				
270.000		.3548	.3254	-.8781	-.3782	-.3943	-.2076	-.0418	.0101	.0030	.1682	.7020	.0565	.1973	-.4835
315.000		.1740	-.1022	-1.1966	-.5243	-.4689	-.1225	-.0344	-.0037	-.0075	.0625				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0564	-.2893	.1905	-.1166	.2603	.0928
45.000	-.1757	-.1340			.0728	-.0588
90.000	-.2321	-.0680	.0872	-.0680	-.0176	-.0983
135.000	-.2187	-.1743			.1501	.0151
180.000	.0186	-.3173	.3286	-.1987	.0296	-.0842
225.000	-.2966	-.2497			-.1005	.0000
270.000	-.2559	-.2420	-.1308	-.2165	-.1748	-.1951
315.000	-.2870	-.2670			-.0931	-.0602

ALPHAL(2) = -4.229   BETAL (5) =   6.299

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1726	.1117	-.0908	-1.1620	-.5980	-.2508	-.0875	-.0162	-.0032	-.0109	.0521	.3000	-.5254	-.4791	-.5490
45.000		.1125	-.0818	-1.1489	-.5486	-.0982	-.0790	-.0229	-.0077	-.0180	.0618				
90.000		.1095	-.0743	-1.1617	-.9146	-.2113	-.1566	-.0819	-.0385	-.0240	.0959		-.6156	-.6209	
135.000		.1839	-.0352	-1.1438	-.5597	-.2626	-.2521	-.1347	-.0653	-.0664	.0483				
180.000	1.1726	.3890	.1467	-1.0813	-.1902	-.2305	-.2439	-.1239	-.0285	.0041	-.0019	.4674	-.5009	-.4750	-.6070
225.000		.5134	.3387	-1.0081	-.0779	-.1013	-.1756	-.0567	.0254	.0427	.0989				
270.000		.3635	.3387	-.8705	-.3500	-.3680	-.1941	-.0314	.0123	.0071	.1570	.6321	.0067	.2410	-.4746
315.000		.1726	-.0900	-1.1948	-.4819	-.4564	-.1195	-.0181	-.0030	-.0075	.0571				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0696	-.2178	.2020	-.0098	.2455	.0998
45.000	-.1516	-.1214			.1920	.0393
90.000	-.1809	-.0485	.1511	-.0666	-.0087	-.0986
135.000	-.1755	-.1648			.0519	-.0657
180.000	-.1011	-.2535	.1756	-.1856	-.0198	-.0961

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(2) = -4.229   BETAL (5) = 6.299

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS   .8102   .8661   .9120   .9130   .9344   .9565

PHI
225.000   -.2926   -.2899   -.0927   .0000
270.000   -.2604   -.2512   -.1138   -.2112   -.1952   -.2321
315.000   -.2926   -.2919   -.0020   .0141

ALPHAL(3) = -2.234   BETAL (1) = -6.051

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2286	.2170	-.0120	-1.1139	-.7368	-.1758	-.1123	-.0545	-.0153	.0078	.1429	.2302	-.4517	-.1766	-.5127
45.000		.2528	.0484	-1.1054	-.8219	-.0787	-.1241	-.0779	-.0400	-.0298	.1210				
90.000		.3133	.1177	-1.0826	-.7451	-.C927	-.1518	-.1085	-.0665	-.0528	.0987		-.6676	-.6773	
135.000		.3565	.1427	-1.0567	-.4564	-.0054	-.0788	-.0441	.0446	.0903	.2101				
180.000	1.2286	.3685	.1371	-1.0628	-.1414	-.0024	-.0928	-.0485	.0620	.1349	.2695	.5505	-.2015	-.5662	-.6100
225.000		.3774	.1974	-1.0593	-.1352	-.0472	-.1167	-.0396	.0672	.1399	.3482				
270.000		.3386	.3561	-.8215	-.6013	-.3899	-.2461	-.0643	.0085	-.0067	.1124	.7885	.1713	.2504	-.5452
315.000		.2495	-.0019	-1.1372	-.5090	-.4068	-.1101	-.0360	.0048	.0215	.1441				

X/LS   .8102   .8661   .9120   .9130   .9344   .9565

PHI
.000   -.1087   -.2271   -.1556   -.2992   -.1148   -.1803
45.000   -.1349   -.1746   .0967   .0169
90.000   -.1644   -.0782   .1266   .0203   .2160   .0579
135.000 -.0922   -.0189   .2902   .1117
180.000 -.0964   -.1219   .4336   -.0276   .2304   .0467
225.000 -.3057   -.3641   .2474   .0000
270.000 -.2916   -.2456   .1395   -.2278   -.1777   -.1934
315.000 -.3030   -.2792   -.2031   -.2224

ALPHAL(3) = -2.188   BETAL (2) = -1.984

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2189	.2106	-.0194	-1.1320	-.7317	-.1740	-.1058	-.0444	-.0134	.0009	.1068	.2790	-.4685	-.2863	-.4930
45.000		.2188	.0094	-1.1238	-.8440	-.0605	-.1113	-.0530	-.0178	-.0099	.1173				
90.000		.2494	.0570	-1.1118	-.8345	-.1081	-.1568	-.0893	-.0459	-.0435	.0997		-.6559	-.6657	
135.000		.3048	.0929	-1.0792	-.7291	-.0579	-.1343	-.0626	.0120	.0378	.1702				
180.000	1.2189	.3601	.1296	-1.0715	-.2226	-.0632	-.1417	-.0611	.0351	.0840	.2146	.5446	-.2657	-.5945	-.6080
225.000		.3982	.2115	-1.0586	-.1904	-.0899	-.1531	-.0537	.0456	.0997	.2822				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(3) = -2.188   BETAL (2) = -1.984

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3556	.3721	-.8276	-.5622	-.3996	-.2171	-.0485	.0180	.0314	.1777	.6890	.0568	.1036	-.5428
315.000		.2506	-.0037	-1.1454	-.4872	-.4450	-.1335	-.0360	-.0010	.0128	.1114				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1518	-.1959	-.0740	-.1946	-.0452	-.1201
45.000	-.1537	-.1119			.0772	-.0086
90.000	-.1769	-.0532	.0605	-.0031	.1250	-.0053
135.000	-.1638	-.0513			.2612	.0932
180.000	-.0742	-.1886	.4643	-.0759	.2590	.0730
225.000	-.3023	-.2644			.1154	.0000
270.000	-.2531	-.2304	.0661	-.2005	-.1534	-.1739
315.000	-.2897	-.2445			-.1663	-.1792

ALPHAL(3) = -2.151   BETAL (3) = 2.144

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2111	.1941	-.0250	-1.1281	-.7907	-.2052	-.0992	-.0299	-.0092	.0004	.0860	.3225	-.5198	-.4425	-.5404
45.000		.1822	-.0183	-1.1172	-.8840	-.0739	-.0826	-.0288	-.0062	.0034	.0957				
90.000		.1963	.0090	-1.1281	-.8574	-.1150	-.1416	-.0660	-.0173	-.0055	.1113		-.6435	-.6484	
135.000		.2490	.0358	-1.0991	-.7839	-.1199	-.1734	-.0822	-.0119	-.0007	.1362				
180.000	1.2111	.3509	.1258	-1.0725	-.3811	-.1344	-.1778	-.0749	.0123	.0417	.1359	.5373	-.2934	-.6002	-.5647
225.000		.4337	.2437	-1.0451	-.1843	-.1218	-.1582	-.0549	.0384	.0759	.1775				
270.000		.3871	.3901	-.8326	-.5711	-.4215	-.1737	-.0365	.0146	.0309	.1790	.5863	-.0194	.0803	-.4141
315.000		.2572	.0075	-1.1383	-.4896	-.4737	-.1276	-.0240	.0038	.0056	.0814				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0994	-.2208	.0791	-.1155	.1422	.0229
45.000	-.1499	-.1297			.1027	-.0254
90.000	-.1984	-.0473	.0794	-.0254	.0270	-.0679
135.000	-.2002	-.0976			.1360	.0214
180.000	-.0332	-.2620	.4170	-.1576	.1670	.0244
225.000	-.2818	-.2296			-.0794	.0000
270.000	-.2582	-.2334	-.1229	-.2153	-.1661	-.1818
315.000	-.2932	-.2585			-.1233	-.0947

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(3) = -2.129   BETAL (4) =   6.252

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1984	.1760	-.0346	-1.1244	-.7919	-.2415	-.0883	-.0211	.0066	.0049	.0918	.3818	-.5446	-.5061	-.5345
45.000		.1518	-.0464	-1.1262	-.8722	-.0772	-.0765	-.0166	.0044	.0064	.1071				
90.000		.1570	-.0312	-1.1311	-.9000	-.1122	-.1119	-.0457	-.0126	-.0063	.1082			-.6373	-.6238
135.000		.1984	-.0151	-1.1178	-.8303	-.1814	-.1950	-.0937	-.0163	-.0081	.0948				
180.000	1.1984	.3355	.1169	-1.0770	-.3685	-.1993	-.2164	-.1110	-.0126	.0283	.0413	.4468	-.4339	-.5308	-.5752
225.000		.4643	.2822	-1.0290	-.1259	-.1267	-.1614	-.0623	.0190	.0591	.1045				
270.000		.4139	.4164	-.8311	-.5244	-.4134	-.1414	-.0369	.0026	.0357	.1550	.4853	-.0646	.0659	-.4885
315.000		.2705	.0293	-1.1330	-.4685	-.4722	-.1311	-.0155	.0097	.0119	.0793				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1061	-.1412	.2006	.0198	.2412	.1102
45.000	-.1334	-.0909			.1822	.0357
90.000	-.1681	-.0407	.1537	-.0654	.0135	-.0928
135.000	-.1660	-.1161			.0844	-.0462
180.000	-.0696	-.2299	.2058	-.1828	-.0215	-.1051
225.000	-.2958	-.2886			-.0614	.0000
270.000	-.2787	-.2341	-.0710	-.1917	-.1747	-.2220
315.000	-.2916	-.2737			.0375	.0480

ALPHAL(4) =   -.112   BETAL (1) =   -6.075

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2250	.2808	.0406	-1.1105	-.8632	-.0920	-.0830	-.0427	-.0031	.0283	.1545	.2898	-.4666	-.2340	-.4692
45.000		.3002	.0862	-1.0999	-.7919	-.0249	-.0723	-.0386	-.0060	.0149	.1538				
90.000		.3215	.1269	-1.0851	-.7022	-.0131	-.0601	-.0415	.0054	.0372	.1534			-.6423	-.6502
135.000		.3167	.1112	-1.0741	-.6046	.0136	-.0479	-.0363	.0477	.1137	.2216				
180.000	1.2250	.3066	.0810	-1.0844	-.2919	-.0032	-.0612	-.0419	.0656	.1509	.2566	.5048	-.2018	-.5103	-.5612
225.000		.3287	.1228	-1.0943	-.2287	-.1026	-.0627	-.0278	.0689	.1575	.3173				
270.000		.3515	.3728	-.7984	-.5548	-.3422	-.1034	-.0312	.0350	.0730	.1802	.6813	.1104	.2360	-.3125
315.000		.3047	.0742	-1.1168	-.5209	-.3212	-.0871	-.0278	.0108	.0331	.1384				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1387	-.2413	-.1140	-.2558	-.0191	-.1026
45.000	-.1125	-.1727			.1928	.0735
90.000	-.1289	-.0226	.4321	.0573	.2249	.0721
135.000	-.0683	.0052			.2283	.0619
180.000	-.0615	-.0996	.3981	-.0309	.1943	.0120

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(4) =   -.112   BETAL (1) =   -6.075

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2965	-.3274			.1352	.0000
270.000	-.2927	-.2264	.0669	-.2178	-.1705	-.1848
315.000	-.3026	-.2417			-.2082	-.2060

ALPHAL(4) =   -.099   BETAL (2) =   -4.038

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2250	.2746	.0399	-1.1125	-.8732	-.1063	-.0839	-.0391	-.0036	.0218	.1457	.3106	-.4709	-.2555	-.4533
45.000		.2810	.0687	-1.1057	-.8060	-.0223	-.0676	-.0361	.0020	.0207	.1576				
90.000		.2929	.0971	-1.0975	-.7442	-.0181	-.0698	-.0439	.0024	.0363	.1434		-.6380	-.6519	
135.000		.2974	.0915	-1.0801	-.7129	-.0029	-.0676	-.0480	.0431	.0972	.1960				
180.000	1.2250	.3031	.0822	-1.0854	-.3239	-.0277	-.0843	-.0513	.0557	.1300	.2292	.4919	-.2686	-.5438	-.5712
225.000		.3371	.1346	-1.0919	-.2857	-.1262	-.0758	-.0372	.0554	.1393	.2837				
270.000		.3637	.3865	-.7942	-.5560	-.3598	-.0898	-.0350	.0244	.0811	.2173	.5959	.0430	.1169	-.4439
315.000		.3102	.0784	-1.1179	-.5396	-.3572	-.0861	-.0317	.0121	.0330	.1334				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1590	-.2321	-.0667	-.2030	.0174	-.0707
45.000	-.1245	-.1437			.1749	.0578
90.000	-.1323	-.0156	.2216	.0426	.1749	.0278
135.000	-.0932	-.0029			.1938	.0415
180.000	-.0378	-.1284	.3958	-.0626	.2086	.0337
225.000	-.2803	-.2922			.1312	.0000
270.000	-.2723	-.2184	.0738	-.2015	-.1537	-.1732
315.000	-.2930	-.2474			-.1756	-.1851

ALPHAL(4) =   -.096   BETAL (3) =   .054

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2198	.2575	.0278	-1.1186	-.8540	-.1309	-.0789	-.0392	-.0040	.0047	.1228	.3692	-.4725	-.3477	-.4905
45.000		.2339	.0241	-1.1160	-.8376	-.0121	-.0685	-.0322	.0015	.0137	.1400				
90.000		.2387	.0447	-1.1092	-.8116	-.0304	-.0885	-.0481	-.0026	.0264	.1310		-.6544	-.6574	
135.000		.2575	.0567	-1.0916	-.8403	-.0381	-.1056	-.0526	.0193	.0499	.1539				
180.000	1.2198	.2972	.0851	-1.0863	-.6752	-.0778	-.1292	-.0611	.0275	.0738	.1620	.4738	-.3286	-.5614	-.5876
225.000		.3631	.1601	-1.0847	-.4709	-.1553	-.1015	-.0541	.0301	.0955	.2024				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(4) =   -.096   BETAL (3) =   .054

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3901	.4096	-.7921	-.5943	-.4086	-.0752	-.0604	-.0039	.0596	.2252	.4989	-.0785	.0711	-.5033
315.000		.3174	.0848	-1.1172	-.5606	-.4164	-.0885	-.0215	.0137	.0305	.1337				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1381	-.2226	.0390	-.1063	.1217	.0031
45.000	-.1362	-.1335			.1665	.0353
90.000	-.1347	-.0051	.1488	.0094	.1106	-.0199
135.000	-.1450	-.0154			.1236	-.0008
180.000	-.0636	-.1526	.3452	-.0892	.1625	.0175
225.000	-.2187	-.2573			.0457	.0000
270.000	-.2600	-.2520	-.0470	-.1989	-.1463	-.1493
315.000	-.2845	-.2638			-.1278	-.1086

ALPHAL(4) =   -.081   BETAL (4) =   4.152

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2090	.2395	.0168	-1.1247	-.8472	-.1476	-.0709	-.0349	-.0045	.0033	.1282	.4223	-.4991	-.4549	-.5193
45.000		.1918	-.0091	-1.1397	-.8828	-.2039	-.0628	-.0293	.0004	.0112	.1334				
90.000		.1861	-.0054	-1.1232	-.8816	-.0362	-.0787	-.0449	.0011	.0243	.1084		-.6249	-.6268	
135.000		.2102	.0063	-1.1114	-.8357	-.0822	-.1296	-.0627	.0059	.0280	.1159				
180.000	1.2090	.2808	.0760	-1.0977	-.7211	-.1380	-.1611	-.0775	-.0004	.0475	.0942	.4459	-.3381	-.5526	-.5680
225.000		.3867	.1886	-1.0781	-.4204	-.1602	-.1073	-.0734	.0130	.0747	.1417				
270.000		.4178	.4309	-.8092	-.6262	-.4265	-.0735	-.1012	-.0203	.0463	.2037	.4508	-.1329	.1572	-.4800
315.000		.3322	.1008	-1.1176	-.5558	-.4402	-.0765	-.0178	.0179	.0242	.1397				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1217	-.1565	.1321	-.0173	.1943	.0839
45.000	-.1464	-.0680			.1658	.0401
90.000	-.1498	-.0275	.1821	-.0384	.0746	-.0536
135.000	-.1641	-.0519			.0687	-.0407
180.000	-.0775	-.2054	.2933	-.1648	.0668	-.0601
225.000	-.3084	-.2500			-.0377	.0000
270.000	-.2920	-.2252	-.0796	-.1844	-.1407	-.1638
315.000	-.3221	-.2492			-.0036	.0000

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(4) = -.078   BETAL (5) =   6.202

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2007	.2268	.0088	-1.1357	-.8463	-.1646	-.0640	-.0332	-.0068	.0001	.1286	.4413	-.4933	-.4757	-.5217
45.000		.1701	-.0390	-1.1444	-.8980	-.0239	-.0629	-.0343	-.0046	.0079	.1316				
90.000		.1652	-.0296	-1.1335	-.8700	-.0404	-.0785	-.0440	-.0008	.0252	.0994		-.6263	-.6368	
135.000		.1859	-.0209	-1.1222	-.8424	-.1052	-.1503	-.0674	.0016	.0312	.1039				
180.000	1.2007	.2723	.0701	-1.0992	-.6830	-.1711	-.1848	-.0993	-.0063	.0477	.0551	.3799	-.3805	-.5195	-.5482
225.000		.3987	.1990	-1.0735	-.3374	-.1626	-.1194	-.0834	.0057	.0675	.1117				
270.000		.4291	.4374	-.8168	-.6355	-.3972	-.0756	-.1254	-.0292	.0424	.1971	.4368	-.1689	.2490	-.5116
315.000		.3393	.1084	-1.1156	-.5500	-.4443	-.0581	-.0146	.0106	.0192	.1413				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1080	-.1358	.2074	.0370	.2534	.1283
45.000	-.1509	-.0460			.1649	.0329
90.000	-.1483	-.0330	.2145	-.0612	.1032	-.0314
135.000	-.1534	-.0686			.0607	-.0595
180.000	-.0949	-.1847	.2115	-.1690	-.0059	-.1044
225.000	-.3158	-.2663			-.0421	.0000
270.000	-.3112	-.2168	-.0552	-.1782	-.1523	-.2165
315.000	-.3360	-.2400			.1021	.0859

ALPHAL(5) =   2.065   BETAL (1) =   -6.066

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2216	.3390	.0899	-1.0956	-.8081	-.0538	-.0565	-.0343	.0059	.0426	.1700	.3543	-.4604	-.2953	-.4596
45.000		.3364	.1200	-1.0851	-.7518	-.0002	-.0377	-.0122	.0210	.0493	.1937				
90.000		.3155	.1248	-1.0825	-.7195	.0089	-.0281	-.0184	.0273	.0853	.1986		-.6439	-.6443	
135.000		.2704	.0760	-1.0839	-.6385	.0112	-.0380	-.0321	.0489	.1296	.2253				
180.000	1.2216	.2480	.0313	-1.0904	-.3520	-.0181	-.0458	-.0361	.0653	.1605	.2350	.4617	-.2702	-.5063	-.5235
225.000		.2730	.0466	-1.1242	-.3281	-.1830	-.0336	-.0262	.0668	.1722	.2781				
270.000		.3446	.3666	-.7872	-.4816	-.3388	-.0565	-.0217	.0377	.1024	.1741	.5684	.0132	.1071	-.4323
315.000		.3502	.1479	-1.0862	-.5736	-.2320	-.0731	-.0122	.0273	.0570	.1498				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1218	-.2092	-.0865	-.2130	.0407	-.0657
45.000	-.1061	-.1963			.2772	.1302
90.000	-.1005	.0036	.5153	.0654	.2400	.0801
135.000	-.0447	.0089			.1752	.0281
180.000	-.0010	-.0587	.2889	-.0441	.1328	-.0314

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(5) = 2.065   BETAL (1) = -6.066

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2419	-.4018			.2072	.0000
270.000	-.2871	-.2276	.1108	-.2104	-.1401	-.1692
315.000	-.2977	-.2458			-.1729	-.1770

ALPHAL(5) = 2.071   BETAL (2) = -2.001

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2176	.3248	.0827	-1.0985	-.8206	-.0818	-.0628	-.0355	.0103	.0334	.1650	.4040	-.4528	-.3503	-.4636
45.000		.2882	.0763	-1.0996	-.8050	-.0050	-.0451	-.0225	.0125	.0371	.1784				
90.000		.2613	.0692	-1.1026	-.8065	.0026	-.0510	-.0421	.0143	.0617	.1665			-.6194	-.6236
135.000		.2474	.0454	-1.0879	-.6287	.0011	-.0632	-.0498	.0334	.0963	.1792				
180.000	1.2176	.2422	.0357	-1.0971	-.3446	-.0639	-.0802	-.0587	.0420	.1194	.1911	.4302	-.2571	-.5032	-.5387
225.000		.2882	.0662	-1.1222	-.3545	-.2397	-.0628	-.0550	.0453	.1330	.2342				
270.000		.3714	.3953	-.7753	-.4656	-.4078	-.0732	-.0576	.0118	.0847	.2472	.5346	-.0882	.1414	-.4703
315.000		.3688	.1603	-1.0860	-.5253	-.3308	-.0783	-.0130	.0259	.0490	.1708				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1237	-.1967	.0284	-.0969	.0983	-.0070
45.000	-.1255	-.1154			.2371	.0897
90.000	-.1184	.0025	.2746	.0284	.1447	.0100
135.000	-.0875	-.0067			.1174	-.0138
180.000	-.0433	-.1036	.2920	-.0743	.1374	-.0224
225.000	-.2592	-.3177			.1337	.0000
270.000	-.2726	-.2273	.0647	-.1734	-.1233	-.1380
315.000	-.2936	-.2654			-.1222	-.1141

ALPHAL(5) = 2.052   BETAL (3) = 2.100

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2097	.3034	.0673	-1.1070	-.8113	-.1154	-.0677	-.0319	-.0006	.0161	.1564	.4690	-.4675	-.4657	-.5057
45.000		.2335	.0250	-1.1194	-.8478	-.0130	-.0596	-.0389	-.0050	.0199	.1571				
90.000		.2066	.0161	-1.1190	-.8474	.0102	-.0695	-.0541	.0046	.0422	.1333			-.6099	-.6227
135.000		.2137	.0109	-1.0985	-.8276	-.0199	-.0887	-.0566	.0225	.0600	.1315				
180.000	1.2097	.2376	.0392	-1.0963	-.4924	-.1173	-.1116	-.0729	.0217	.0816	.1251	.4100	-.3151	-.5184	-.5458
225.000		.3109	.0919	-1.1088	-.3752	-.2619	-.0813	-.0670	.0273	.0950	.1601				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(5) =   2.052   BETAL (3) = 2.100

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4001	.4199	-.7717	-.5076	-.4468	-.0795	-.0961	-.0177	.0578	.2267	.4566	-.1686	.2719	-.4764
315.000		.3878	.1730	-1.0810	-.5465	-.3771	-.0769	-.0153	.0206	.0321	.1637				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1242	-.1749	.1503	-.0330	.2064	.0894
45.000	-.1583	-.0631			.1753	.0489
90.000	-.1497	-.0148	.2068	-.0024	.0990	-.0333
135.000	-.1479	-.0369			.0559	-.0577
180.000	-.0896	-.1468	.2769	-.1186	.0990	-.0351
225.000	-.3103	-.2481			-.0090	.0000
270.000	-.3011	-.2344	-.0662	-.1828	-.1196	-.1388
315.000	-.3091	-.2598			-.0389	-.0284

ALPHAL(5) =   2.045   BETAL (4) =   6.181

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1963	.2893	.0554	-1.1070	-.8001	-.1352	-.0581	-.0367	-.0056	-.0057	.1473	.5048	-.4653	-.4784	-.5257
45.000		.1870	-.0245	-1.1286	-.8664	-.0317	-.0640	-.0466	-.0159	.0044	.1525				
90.000		.1664	-.0238	-1.1256	-.7376	-.0077	-.0662	-.0447	.0025	.0308	.1119		-.6134	-.6118	
135.000		.1757	-.0212	-1.1106	-.8687	-.0522	-.1087	-.0547	.0148	.0521	.1160				
180.000	1.1963	.2168	.0345	-1.1045	-.5795	-.1702	-.1530	-.0846	.0137	.0729	.0784	.3765	-.3912	-.4976	-.5309
225.000		.3252	.1188	-1.1041	-.3281	-.2847	-.1046	-.0776	.0137	.0855	.1246				
270.000		.4280	.4589	-.7795	-.5123	-.4743	-.1087	-.1429	-.0493	.0464	.2121	.4479	-.1960	.3477	-.4984
315.000		.4112	.2013	-1.0752	-.5222	-.3754	-.0577	-.0159	.0140	.0263	.1574				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1000	-.1215	.3244	.0567	.3529	.1880
45.000	-.1596	-.0404			.1399	.0061
90.000	-.1334	-.0106	.2258	-.0393	.0856	-.0483
135.000	-.1364	-.0400			.0312	-.0773
180.000	-.0613	-.1642	.2011	-.1534	-.0084	-.1052
225.000	-.3079	-.2853			-.0239	.0000
270.000	-.3262	-.2174	-.0046	-.1553	-.1429	-.2215
315.000	-.3159	-.2575			.1765	.1236

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(6) =   4.216   BETAL (1) =   -6.052

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2024	.3909	.1345	-1.0962	-.7293	-.0383	-.0173	-.0014	.0263	.0556	.1855	.3965	-.4567	-.3396	-.4541
45.000		.3655	.1376	-1.0905	-.6953	-.0040	-.0077	.0041	.0333	.0664	.2128				
90.000		.2930	.1010	-1.1048	-.6626	-.0391	-.0428	-.0606	-.0051	.0884	.2184		-.6236	-.6386	
135.000		.2167	.0242	-1.0940	-.4278	-.0185	-.0461	-.0510	.0373	.1369	.2228				
180.000	1.2024	.1846	-.0274	-1.0989	-.4118	-.0338	-.0480	-.0384	.0593	.1682	.2176	.4496	-.2764	-.4837	-.4773
225.000		.2070	-.0469	-1.1553	-.3771	-.2749	-.0336	-.0207	.0754	.1855	.2613				
270.000		.3154	.3251	-.8059	-.4744	-.3485	-.0750	-.0492	.0407	.1057	.1840	.5309	-.0503	.0799	-.4365
315.000		.3842	.2024	-1.0681	-.6762	-.1448	-.0310	-.0162	.0310	.0657	.1708				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1162	-.2037	.0065	-.1440	.1175	-.0049
45.000	-.0791	-.1484			.3372	.1585
90.000	-.0810	.0090	.2018	.0513	.2184	.0642
135.000	-.0363	.0105			.1134	-.0136
180.000	-.0013	-.0577	.2543	-.0567	.0990	-.0532
225.000	-.2121	-.4016			.1733	.0000
270.000	-.2811	-.2132	.0894	-.1958	-.1262	-.1535
315.000	-.2971	-.2361			-.1499	-.1595

ALPHAL(6) =   4.225   BETAL (2) =   -4.020

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2006	.3891	.1326	-1.0869	-.7366	-.0354	-.0180	-.0140	.0214	.0490	.1879	.4222	-.4414	-.3630	-.4608
45.000		.3351	.1154	-1.0898	-.7381	.0014	-.0247	-.0107	.0192	.0549	.2064				
90.000		.2579	.0744	-1.1010	-.7795	-.0323	-.0666	-.0791	-.0217	.0757	.2064		-.5914	-.6060	
135.000		.1997	.0147	-1.0979	-.4357	-.0084	-.0618	-.0626	.0304	.1233	.2012				
180.000	1.2006	.1811	-.0229	-1.0952	-.3636	-.0555	-.0677	-.0541	.0531	.1556	.2139	.4457	-.2585	-.4608	-.4910
225.000		.2072	-.0378	-1.1445	-.3708	-.3128	-.0559	-.0397	.0612	.1719	.2562				
270.000		.3254	.3395	-.7909	-.4372	-.3860	-.0917	-.0644	.0256	.0987	.2016	.5457	-.0391	.1143	-.4257
315.000		.3985	.2146	-1.0558	-.6505	-.1690	-.0409	-.0221	.0282	.0620	.1796				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0992	-.2017	.0750	-.0968	.1359	.0182
45.000	-.0966	-.1067			.2823	.1285
90.000	-.0902	.0131	.1986	.0319	.1584	.0227
135.000	-.0519	-.0036			.1067	-.0288
180.000	-.0150	-.0770	.2650	-.0699	.1108	-.0418

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(6) =   4.225   BETAL (2) =   -4.020

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2181	-.3752			.1698	.0000
270.000	-.2618	-.2280	.0924	-.1865	-.1168	-.1432
315.000	-.2934	-.2459			-.1186	-.1343

ALPHAL(6) =   4.198   BETAL (3) =   .052

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1982	.3748	.1228	-1.0852	-.7428	-.0500	-.0312	-.0297	.0067	.0250	.1723	.4709	-.4405	-.4450	-.4929
45.000		.2794	.0646	-1.1053	-.7694	-.0067	-.0481	-.0462	-.0106	.0198	.1801		-.6001	-.6063	
90.000		.2119	.0300	-1.1131	-.8260	-.0200	-.0776	-.0903	-.0161	.0529	.1668				
135.000		.1903	.0002	-1.0982	-.4979	-.0018	-.0739	-.0631	.0247	.0882	.1567				
180.000	1.1982	.1836	-.0095	-1.1055	-.3858	-.1108	-.0908	-.0631	.0373	.1142	.1631	.4031	-.2720	-.4877	-.5291
225.000		.2224	-.0136	-1.1442	-.3880	-.3622	-.0798	-.0584	.0466	.1297	.1979				
270.000		.3595	.3711	-.7819	-.4526	-.4488	-.1052	-.0867	.0172	.0829	.2295	.5037	-.0931	.1251	-.4724
315.000		.4266	.2363	-1.0534	-.6322	-.1935	-.0492	-.0234	.0247	.0462	.1798				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0801	-.2039	.1593	-.0425	.2312	.0994
45.000	-.1305	-.0585			.1894	.0570
90.000	-.1171	.0023	.2006	-.0042	.0942	-.0371
135.000	-.0941	-.0258			.1005	-.0291
180.000	-.0611	-.1025	.2297	-.0827	.0938	-.0599
225.000	-.2407	-.2975			.0544	.0000
270.000	-.2460	-.2489	-.0127	-.1796	-.1160	-.1293
315.000	-.2703	-.2702			-.0777	-.0659

ALPHAL(6) =   4.170   BETAL (4) =   4.154

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1868	.3608	.1049	-1.0871	-.7355	-.0722	-.0481	-.0499	-.0119	.0027	.1516	.5204	-.4516	-.4928	-.5019
45.000		.2198	.0009	-1.1191	-.8375	-.0377	-.0813	-.0770	-.0417	-.0069	.1597		-.5797	-.6038	
90.000		.1624	-.0166	-1.1228	-.8013	-.0134	-.0824	-.0770	-.0071	.0388	.1337				
135.000		.1620	-.0241	-1.0953	-.6005	-.0043	-.0798	-.0549	.0247	.0656	.1245				
180.000	1.1868	.1713	-.0088	-1.1079	-.4621	-.1579	-.1112	-.0693	.0314	.0909	.1111	.4160	-.3610	-.5317	-.5157
225.000		.2358	.0143	-1.1368	-.3739	-.3807	-.0927	-.0663	.0407	.1133	.1426				

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(6) =   4.170   BETAL (4) =   4.154

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3873	.4006	-.7694	-.4763	-.4638	-.1108	-.0969	.0102	.0781	.2105	.4279	-.1530	.2012	-.4688
315.000		.4552	.2603	-1.0462	-.5727	-.2096	-.0451	-.0218	.0232	.0384	.1646				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0676	-.1839	.3175	.0082	.3611	.1933
45.000	-.1554	-.0397			.1422	.0181
90.000	-.1238	-.0101	.2401	-.0392	.0419	-.0844
135.000	-.1143	-.0397			.0508	-.0589
180.000	-.0525	-.1654	.2610	-.1397	.0706	-.0645
225.000	-.2949	-.2899			.0228	.0000
270.000	-.3134	-.2175	.0342	-.1338	-.0943	-.1677
315.000	-.3119	-.2395			.0989	.0727

ALPHAL(6) =   4.149   BETAL (5) =   6.208

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1783	.3461	.0924	-1.1036	-.7234	-.0950	-.0591	-.0625	-.0306	-.0142	.1308	.5676	-.5132	-.5195	-.5255
45.000		.1874	-.0351	-1.1459	-.8756	-.0629	-.0984	-.1025	-.0643	-.0228	.1502		-.5917	-.6036	
90.000		.1411	-.0441	-1.1429	-.5543	-.0164	-.0814	-.0777	-.0151	.0290	.1185				
135.000		.1482	-.0449	-1.1103	-.5585	-.0217	-.0895	-.0629	.0231	.0618	.1122				
180.000	1.1783	.1601	-.0161	-1.1160	-.4990	-.1835	-.1336	-.0799	.0283	.0898	.0887	.3990	-.4059	-.5281	-.5330
225.000		.2391	.0217	-1.1400	-.3743	-.3777	-.1117	-.0740	.0365	.0976	.1297				
270.000		.3992	.4112	-.7772	-.4998	-.4567	-.1195	-.0995	.0085	.0663	.2087	.4173	-.1655	.2211	-.4881
315.000		.4695	.2694	-1.0477	-.5448	-.1932	-.0358	-.0236	.0205	.0246	.1511				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0320	-.1911	.4150	.0310	.4475	.2331
45.000	-.1554	-.0381			.1160	-.0016
90.000	-.1375	-.0039	.2749	-.0441	.0243	-.1017
135.000	-.1124	-.0591			.0542	-.0647
180.000	-.0404	-.1664	.2183	-.1549	.0025	-.0971
225.000	-.2726	-.3274			.0032	.0000
270.000	-.3026	-.2105	.0336	-.1424	-.1261	-.2037
315.000	-.3224	-.2467			.1651	.1082

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(7) =   6.370   BETAL (1) =   -3.971

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1731	.4456	.1815	-1.0688	-.6469	-.0348	-.0019	.0065	.0371	.0593	.2100	.4745	-.4580	-.4216	-.4600
45.000		.3491	.1293	-1.0859	-.6591	-.0317	-.0274	-.0174	.0091	.0497	.2137				
90.000		.2180	.0447	-1.1068	-.6838	-.1359	-.1367	-.1485	-.0837	.0504	.2051		-.5808	-.5744	
135.000		.1416	-.0342	-1.1037	-.4338	-.0614	-.0782	-.0771	.0218	.1250	.1910				
180.000	1.1731	.1237	-.0734	-1.1067	-.4110	-.0842	-.0682	-.0513	.0485	.1543	.1851	.4228	-.3151	-.4951	-.4727
225.000		.1286	-.1374	-1.1781	-.3536	-.3631	-.0546	-.0343	.0634	.1758	.2222				
270.000		.2724	.2683	-.8301	-.4258	-.3369	-.0561	-.0454	.0482	.1209	.2018	.4529	-.0978	.0134	-.4600
315.000		.4299	.2686	-1.0318	-.5800	-.1290	.0014	.0080	.0445	.0745	.1928				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0931	-.1801	.1537	-.0420	.2405	.0912
45.000	-.0793	-.0985			.3189	.1494
90.000	-.0886	-.0017	.2461	.0021	.1715	.0205
135.000	-.0458	-.0287			.0559	-.0723
180.000	-.0108	-.1069	.2634	-.0990	.1277	-.0289
225.000	-.1995	-.3794			.1597	.0000
270.000	-.2606	-.2130	.0996	-.1711	-.1014	-.1257
315.000	-.2879	-.2259			-.0914	-.0904

ALPHAL(7) =   6.359   BETAL (2) =   -1.940

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1683	.4378	.1695	-1.0868	-.6352	-.0528	-.0149	-.0075	.0203	.0437	.1977	.4956	-.4254	-.4430	-.4767
45.000		.3127	.0838	-1.1081	-.7060	-.0540	-.0537	-.0482	-.0182	.0228	.1943				
90.000		.1879	.0111	-1.1314	-.7572	-.1474	-.1473	-.1608	-.0764	.0437	.1786		-.5736	-.5571	
135.000		.1321	-.0444	-1.1297	-.4287	-.0658	-.0822	-.0808	.0139	.1045	.1554				
180.000	1.1683	.1205	-.0718	-1.1224	-.4199	-.1160	-.0785	-.0564	.0411	.1374	.1659	.4002	-.3038	-.4714	-.4834
225.000		.1268	-.1356	-1.1962	-.3710	-.3790	-.0677	-.0442	.0489	.1487	.1969				
270.000		.2827	.2766	-.8387	-.4181	-.3518	-.0737	-.0645	.0310	.1028	.2227	.4526	-.1268	.1348	-.4714
315.000		.4445	.2766	-1.0429	-.5517	-.1524	-.0067	-.0075	.0400	.0591	.1943				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0676	-.2046	.2088	-.0283	.2661	.1143
45.000	-.1208	-.0787			.2620	.1091
90.000	-.1024	-.0139	.2399	-.0260	.1276	-.0187
135.000	-.0597	-.0456			.0523	-.0736
180.000	-.0276	-.1161	.2583	-.0980	.1121	-.0401

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(7) =   6.359   BETAL (2) =   -1.940

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2100	-.3667			.1379	.0000
270.000	-.2580	-.2264	.0840	-.1597	-.0777	-.1019
315.000	-.2832	-.2538			-.0556	-.0568

ALPHAL(7) =   6.331   BETAL (3) =   .106

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1697	.4317	.1676	-1.0730	-.6186	-.0539	-.0256	-.0159	.0092	.0270	.1847	.5207	-.4135	-.4602	-.4994
45.000		.2832	.0608	-1.0992	-.7444	-.0728	-.0512	-.0646	-.0370	.0005	.1777		-.5700	-.5707	
90.000		.1683	-.0033	-1.1260	-.8338	-.1094	-.1440	-.1484	-.0610	.0463	.1632				
135.000		.1358	-.0410	-1.1144	-.4026	-.0398	-.0794	-.0720	.0151	.0865	.1334				
180.000	1.1697	.1247	-.0604	-1.1140	-.4060	-.1299	-.0779	-.0599	.0352	.1233	.1416	.3613	-.2989	-.4759	-.4986
225.000		.1362	-.1197	-1.1764	-.3703	-.3858	-.0757	-.0551	.0430	.1334	.1713				
270.000		.3064	.2937	-.8113	-.4246	-.3699	-.0861	-.0735	.0255	.1006	.2320	.4285	-.1499	.1563	-.4546
315.000		.4661	.2944	-1.0239	-.5243	-.1484	-.0060	-.0001	.0359	.0541	.1918				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0461	-.2307	.2763	-.0015	.3409	.1634
45.000	-.1323	-.0617			.2151	.0822
90.000	-.1140	-.0119	.2450	-.0344	.0889	-.0429
135.000	-.0762	-.0511			.0675	-.0572
180.000	-.0492	-.1131	.2313	-.0916	.0771	-.0617
225.000	-.2208	-.3418			.0944	.0000
270.000	-.2600	-.2433	.0339	-.1587	-.0879	-.1022
315.000	-.2718	-.2627			-.0122	-.0033

ALPHAL(7) =   6.302   BETAL (4) =   2.164

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1638	.4163	.1518	-1.0812	-.6227	-.0663	-.0351	-.0395	-.0036	.0022	.1706	.5472	-.4232	-.4742	-.5001
45.000		.2465	.0224	-1.1238	-.7859	-.0678	-.0917	-.0975	-.0635	-.0246	.1628		-.5631	-.5686	
90.000		.1402	-.0266	-1.1399	-.8465	-.0975	-.1431	-.1392	-.0502	.0391	.1531				
135.000		.1253	-.0408	-1.1171	-.4105	-.0312	-.0880	-.0642	.0142	.0660	.1114				
180.000	1.1638	.1155	-.0595	-1.1243	-.4158	-.1519	-.0939	-.0612	.0362	.1055	.1166	.3282	-.3167	-.4776	-.5046
225.000		.1395	-.1081	-1.1761	-.3879	-.4009	-.0858	-.0642	.0410	.1185	.1438				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS07)

ALPHAL(7) =   6.302   BETAL (4) =   2.164

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
270.000		.3198	.3124	-.8110	-.4470	-.3971	-.0991	-.0923	.0179	.0905	.2254	.4028	-.1966	.2342	-.4552
315.000		.4769	.3012	-1.0264	-.5079	-.1560	-.0144	-.0003	.0313	.0518	.1841				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0233	-.2636	.3587	-.0165	.4261	.2179
45.000	-.1588	-.0619			.1872	.0545
90.000	-.1303	-.0259	.2550	-.0551	.0482	-.0841
135.000	-.1016	-.0665			.0593	-.0668
180.000	-.0833	-.1414	.2094	-.1147	.0682	-.0773
225.000	-.2747	-.2921			.0467	.0000
270.000	-.2904	-.2151	-.0132	-.1584	-.0981	-.1296
315.000	-.2961	-.2391			.0390	.0411

ALPHAL(7) =   6.279   BETAL (5) =   4.217

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
.000	1.1544	.4132	.1452	-1.0830	-.6153	-.0900	-.0528	-.0520	-.0238	-.0129	.1493	.5761	-.4516	-.4494	-.4861
45.000		.2130	-.0078	-1.1335	-.8222	-.0950	-.1179	-.1255	-.0919	-.0435	.1530				
90.000		.1138	-.0538	-1.1466	-.6558	-.1022	-.1393	-.1248	-.0409	.0386	.1366		-.5467	-.5559	
135.000		.1149	-.0594	-1.1185	-.4207	-.0328	-.0835	-.0678	.0155	.0606	.0896				
180.000	1.1544	.1082	-.0594	-1.1234	-.4233	-.1895	-.0983	-.0715	.0334	.0991	.0967	.3266	-.3334	-.4730	-.4969
225.000		.1381	-.1013	-1.1784	-.3958	-.4187	-.0938	-.0656	.0379	.1102	.1310				
270.000		.3335	.3283	-.8058	-.4488	-.4050	-.1190	-.1233	-.0025	.0811	.2295	.4385	-.2133	.3609	-.4357
315.000		.5001	.3167	-1.0211	-.4911	-.1616	-.0106	-.0083	.0311	.0453	.1860				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0115	-.2630	.4598	.0091	.5062	.2531
45.000	-.1460	-.0560			.1530	.0338
90.000	-.1262	-.0320	.2964	-.0595	.0235	-.1017
135.000	-.1138	-.0720			.0323	-.0848
180.000	-.0944	-.1633	.2097	-.1392	.0615	-.0736
225.000	-.2740	-.2773			.0209	.0000
270.000	-.2972	-.2168	-.0101	-.1418	-.1021	-.1710
315.000	-.2988	-.2309			.1287	.1170

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT		MACH = 1.100	RN/FT = 3.000	
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT		ELV-IB = 8.000	ELV-OB = 4.000	
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT		RUDDER = .000	SPDBRK = .000	
SCALE = .0300 SCALE					

ALPHAL(1) = -.139   BETAL (1) = -6.112

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3444	.4099	.2711	-.6498	-.4822	-.1450	-.0005	-.0360	-.0469	.0688	.3279	.3900	-.2424	-.0997	-.4074
45.000		.4362	.3130	-.6375	-.4208	-.2066	.0400	-.0076	-.0664	.0546	.3439				
90.000		.4529	.3504	-.6264	-.3820	-.1648	.0514	-.0049	-.0749	.0847	.3375		-.4271	-.4234	
135.000		.4431	.3201	-.6207	-.4118	.0867	.1024	.0196	-.0434	.1884	.4294				
180.000	1.3444	.4183	.2889	-.6312	-.4589	.1684	.0822	-.0083	-.0385	.2413	.4766	.7021	-.0762	-.3154	-.4424
225.000		.4333	.3214	-.6415	-.4804	-.0384	.0310	-.0440	-.0650	.2485	.5359				
270.000		.4676	.5520	-.5010	-.5721	-.3214	-.3060	-.1652	-.0473	.1073	.2421	.9251	.3779	.3693	-.3090
315.000		.4252	.3115	-.6480	-.4966	-.2628	-.0761	-.0511	-.0184	.0838	.3249				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1440	-.3186	-.1380	-.1943	.0493	.0447
45.000	-.0289	-.2872			.2354	.1852
90.000	-.1394	-.1029	.0564	.1219	.2863	.2108
135.000	.0373	-.0806			.3696	.2599
180.000	-.0994	-.0308	.3650	.1041	.2856	.1599
225.000	-.2693	-.3591			.1523	.0000
270.000	-.3158	-.2809	-.0367	-.2389	-.1850	-.1695
315.000	-.2887	-.2917			-.1943	-.1783

ALPHAL(1) = -.112   BETAL (2) = -4.042

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3393	.3825	.2684	-.6528	-.4850	-.1553	-.0058	-.0322	-.0453	.0274	.3209	.4137	-.2199	-.1196	-.3949
45.000		.4035	.2949	-.6452	-.4418	-.2109	.0404	-.0133	-.0605	.0225	.3396				
90.000		.4149	.3223	-.6383	-.4136	-.1397	.0470	-.0229	-.0817	.0685	.3258		-.4260	-.4265	
135.000		.4099	.3063	-.6293	-.4292	.0703	.0826	-.0038	-.0828	.1566	.4028				
180.000	1.3393	.3971	.2934	-.6353	-.4518	.1564	.0597	-.0356	-.0717	.2093	.4483	.6976	-.0915	-.3268	-.4564
225.000		.4248	.3347	-.6446	-.4791	-.0343	.0030	-.0680	-.0838	.2188	.5041				
270.000		.4586	.5644	-.4976	-.5367	-.3324	-.2564	-.1418	-.0484	.1017	.2815	.8946	.3569	.3900	-.3174
315.000		.4141	.3129	-.6564	-.5014	-.2820	-.0739	-.0524	-.0324	.0557	.3103				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)

ALPHAL(1) =   -.112   BETAL (2) =   -4.042

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1443	-.3030	-.0995	-.1659	.0633	.0577
45.000	-.0428	-.2453			.2262	.1723
90.000	-.1394	-.0767	.0470	.1163	.2569	.1789
135.000	.0113	-.0757			.3218	.2297
180.000	-.1324	-.0463	.3462	.1060	.2886	.1736
225.000	-.2854	-.3618			.1445	.0000
270.000	-.3037	-.2876	-.0298	-.2139	-.1593	-.1629
315.000	-.2778	-.3062			-.2015	-.1749

ALPHAL(1) =   -.095   BETAL (3) =   .079

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3225	.3467	.2645	-.6494	-.4693	-.1716	-.0226	-.0148	-.0475	.0153	.2785	.4422	-.3246	-.2923	-.4040
45.000		.3408	.2651	-.6494	-.4630	-.1708	.0129	-.0173	-.0694	.0313	.3114				
90.000		.3440	.2809	-.6448	-.4502	-.0834	.0029	-.0519	-.1069	.0735	.3075		-.4718	-.4935	
135.000		.3677	.2843	-.6294	-.4424	.0404	.0171	-.0679	-.1155	.1201	.3537				
180.000	1.3225	.3965	.3102	-.6274	-.4253	.0999	-.0100	-.1018	-.1275	.1609	.3704	.6913	-.2324	-.4286	-.5001
225.000		.4218	.3718	-.6297	-.4381	-.0211	-.0538	-.1135	-.1282	.1747	.3758				
270.000		.4403	.5926	-.4693	-.5257	-.3559	-.2585	-.1400	-.0588	.0699	.2965	.7960	.2551	.3323	-.3948
315.000		.3787	.3230	-.6513	-.4730	-.2963	-.0686	-.0460	-.0480	.0276	.2605				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1323	-.2849	-.0685	-.1185	.1446	.1134
45.000	-.0324	-.2547			.1492	.0817
90.000	-.1308	-.0690	.0434	.0768	.1946	.1149
135.000	-.0598	-.0545			.2507	.1710
180.000	-.1678	-.0788	.2909	.0527	.2517	.1433
225.000	-.2967	-.2784			.0232	.0000
270.000	-.2892	-.2454	-.0661	-.2088	-.1612	-.1607
315.000	-.2557	-.2959			-.1534	-.1260

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)

ALPHAL(1) =   -.078   BETAL (4) =   4.234

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3038	.3068	.2588	-.6528	-.4599	-.2143	-.0494	-.0275	-.0509	.0415	.2444	.3909	-.2203	-.3419	-.4181
45.000		.2824	.2296	-.6602	-.4906	-.1515	-.0214	-.0331	-.0897	.0646	.2665		-.5197	-.5121	
90.000		.2913	.2355	-.6565	-.4896	-.0633	-.0280	-.0702	-.1516	.1086	.2648				
135.000		.3157	.2434	-.6440	-.4705	-.0374	-.0638	-.1299	-.1420	.1197	.2727				
180.000	1.3038	.3615	.3016	-.6330	-.3981	-.0221	-.1106	-.1671	-.1277	.1401	.2252	.5876	-.2085	-.4827	-.4985
225.000		.4139	.3944	-.6262	-.3975	-.0163	-.1369	-.1452	-.0420	.1704	.2525				
270.000		.4221	.6236	-.4358	-.5237	-.3543	-.2750	-.1413	-.0302	.0952	.2948	.7251	.1635	.4262	-.4790
315.000		.3617	.3388	-.6516	-.4576	-.3023	-.0891	-.0438	-.0268	.0586	.2474				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1234	-.2248	.0778	-.0125	.1632	.1011
45.000	-.0720	-.1942			.2026	.1194
90.000	-.1248	-.0944	.1082	-.0040	.1481	.0308
135.000	-.1286	-.0422			.0875	.0067
180.000	-.1045	-.1688	.2671	-.0936	.1194	.0104
225.000	-.2608	-.3849			.0366	.0000
270.000	-.2937	-.2774	.0656	-.1518	-.1009	-.1457
315.000	-.2718	-.3281			.0001	.0286

ALPHAL(1) =   -.089   BETAL (5) =   6.324

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2942	.2796	.2505	-.6517	-.4454	-.2251	-.0660	-.0416	-.0343	.0439	.2610	.4680	-.2298	-.3755	-.4425
45.000		.2515	.2127	-.6618	-.5005	-.1306	-.0384	-.0401	-.0723	.0721	.2794		-.5376	-.5623	
90.000		.2572	.2186	-.6598	-.5008	-.0582	-.0431	-.0718	-.1440	.1118	.2710				
135.000		.2786	.2260	-.6472	-.4785	-.0687	-.0998	-.1506	-.1045	.1169	.2642				
180.000	1.2942	.3328	.3011	-.6317	-.3741	-.0582	-.1556	-.1903	-.0650	.1378	.1882	.5407	-.1815	-.4016	-.4876
225.000		.4026	.4021	-.6229	-.3698	-.0086	-.1787	-.1591	-.0263	.1595	.2514				
270.000		.4110	.6328	-.4133	-.5317	-.3452	-.2673	-.1280	-.0216	.1088	.2980	.6683	.1791	.3259	-.4541
315.000		.3501	.3470	-.6460	-.4302	-.2870	-.1042	-.0462	-.0069	.0688	.2466				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1046	-.2127	.1445	.0459	.2865	.2054
45.000	-.0770	-.1695			.1477	.0517
90.000	-.1312	-.0912	.1650	-.0301	.1419	.0547
135.000	-.1223	-.0714			.0761	-.0200
180.000	-.1010	-.1688	.1818	-.1168	.0245	-.0706

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)

ALPHAL(1) =   -.089   BETAL (5) =   6.324

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2953	-.3984			.0064	.0000
270.000	-.3163	-.2742	.0934	-.1314	-.0934	-.1557
315.000	-.2757	-.3251			.0817	.1083

ALPHAL(2) =   2.130   BETAL (1) =   -6.074

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3364	.4721	.3181	-.6442	-.4401	-.1231	.0343	.0029	-.0169	.0591	.3358	.4645	-.2269	-.2588	-.3822
45.000		.4667	.3391	-.6329	-.4008	-.1802	.0699	.0351	-.0249	.0709	.3776		-.4143	-.3975	
90.000		.4424	.3396	-.6361	-.3925	-.2197	.0994	.0465	-.0346	.1392	.3813				
135.000		.3948	.2747	-.6403	-.4554	.0210	.1043	.0270	-.0417	.2117	.4319				
180.000	1.3364	.3578	.2271	-.6503	-.5145	.0837	.0728	-.0010	-.0510	.2604	.4746	.6645	-.0933	-.3055	-.3951
225.000		.3734	.2375	-.6765	-.5097	-.1752	.0231	-.0169	-.0690	.2697	.5374				
270.000		.4574	.5258	-.5183	-.5062	-.2371	-.0656	-.0861	-.0564	.0984	.1554	.9465	.4186	.3597	-.3006
315.000		.4684	.3758	-.6315	-.4207	-.1784	-.0293	-.0132	-.0095	.0856	.3172				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1252	-.3185	-.0572	-.1622	.1505	.1164
45.000	.0185	-.2959			.3202	.2560
90.000	-.0867	-.0596	.1200	.1283	.2589	.1754
135.000	.0484	-.0579			.3134	.2304
180.000	-.0757	-.0327	.3024	.0910	.2387	.1176
225.000	-.2488	-.3772			.1903	.0000
270.000	-.2893	-.2747	-.0096	-.2171	-.1580	-.1484
315.000	-.2714	-.3077			-.1844	-.1565

ALPHAL(2) =   2.125   BETAL (2) =   -1.950

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3274	.4134	.3145	-.6404	-.4292	-.1330	.0058	-.0083	-.0209	.0082	.2905	.4670	-.2242	-.2915	-.3712
45.000		.3902	.3004	-.6423	-.4327	-.1866	.0527	.0107	-.0418	.0131	.3338		-.4252	-.4208	
90.000		.3626	.2910	-.6453	-.4417	-.1851	.0768	.0073	-.0781	.0871	.3289				
135.000		.3263	.2574	-.6376	-.4681	.0136	.0790	-.0073	-.0808	.1576	.3709				
180.000	1.3274	.3192	.2431	-.6414	-.4913	.0440	.0451	-.0403	-.0860	.1974	.4071	.6511	-.2155	-.3537	-.4220
225.000		.3463	.2634	-.6660	-.4285	-.1959	.0175	-.0476	-.0995	.1988	.4344				

ALPHAL(2) =   2.125   BETAL (2) =   -1.950

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4331	.5598	-.4920	-.4482	-.3033	-.0398	-.0371	-.0457	.1149	.2652	.7366	.2643	.2431	-.3140
315.000		.4420	.3877	-.6263	-.4351	-.1930	-.0464	-.0132	-.0154	.0448	.2814				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1018	-.2578	-.0111	-.0806	.1293	.1018
45.000	-.0391	-.2248			.2524	.1976
90.000	-.1025	-.0574	.1037	.1008	.1956	.1057
135.000	.0120	-.0506			.2832	.2024
180.000	-.1071	-.0385	.2888	.0696	.2373	.1195
225.000	-.2635	-.3211			.1066	.0000
270.000	-.2824	-.2505	-.0031	-.1774	-.1335	-.1440
315.000	-.2540	-.2759			-.1352	-.1182

ALPHAL(2) =   2.079   BETAL (3) =   2.185

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3085	.3777	.3049	-.6431	-.4181	-.1461	-.0352	-.0157	-.0386	.0114	.2903	.5493	-.2321	-.3418	-.4347
45.000		.3353	.2630	-.6547	-.4606	-.1790	.0048	-.0059	-.0737	.0589	.2977			-.4806	-.5043
90.000		.3113	.2541	-.6560	-.4771	-.1011	.0260	-.0245	-.1160	.1107	.2793				
135.000		.3029	.2472	-.6410	-.4774	-.0169	.0206	-.0637	-.1075	.1517	.3060				
180.000	1.3085	.3017	.2615	-.6418	-.4756	-.0189	-.0169	-.1031	-.1153	.1625	.2876	.5860	-.2484	-.4537	-.4648
225.000		.3439	.3002	-.6579	-.4289	-.1730	-.0101	-.0834	-.0753	.1822	.2933				
270.000		.4214	.5944	-.4636	-.4321	-.3492	-.0603	-.0542	-.0551	.1232	.3176	.6068	.0994	.2391	-.4670
315.000		.4305	.4046	-.6249	-.4186	-.2106	-.0776	-.0201	-.0193	.0662	.2805				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0959	-.2362	.1013	-.0085	.2336	.1903
45.000	-.0231	-.1704			.1920	.1198
90.000	-.1147	-.0624	.1125	.0539	.1603	.0630
135.000	-.0531	-.0702			.1820	.1019
180.000	-.1322	-.0856	.2028	-.0044	.1296	.0121
225.000	-.2477	-.3262			.0830	.0000
270.000	-.2722	-.2587	.0230	-.1528	-.0905	-.1219
315.000	-.2505	-.2864			-.0112	.0209

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)

ALPHAL(2) =   2.062   BETAL (4) =   6.312

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2844	.3316	.2912	-.6461	-.3835	-.1975	-.0782	-.0461	-.0385	.0306	.2930	.6777	-.3035	-.4009	-.4930
45.000		.2542	.2113	-.6668	-.4894	-.1794	-.0356	-.0405	-.0677	.0615	.3099				
90.000		.2416	.2086	-.6626	-.5050	-.0504	-.0166	-.0507	-.1128	.1018	.2714		-.5226	-.5421	
135.000		.2441	.2123	-.6481	-.4935	-.0529	-.0458	-.1072	-.0956	.1472	.2696				
180.000	1.2844	.2552	.2549	-.6431	-.4523	-.1031	-.1062	-.1532	-.0603	.1577	.2080	.5299	-.2182	-.4254	-.4604
225.000		.3079	.3143	-.6551	-.3674	-.1541	-.0960	-.1218	-.0333	.1715	.2527				
270.000		.3803	.6369	-.4011	-.4480	-.3258	-.1055	-.0797	-.0566	.1246	.3254	.5560	.0670	.2741	-.4821
315.000		.4079	.4286	-.6202	-.3920	-.2047	-.1152	-.0361	-.0011	.0603	.2802				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0706	-.2178	.2611	.0920	.3964	.3018
45.000	-.0595	-.1462			.1870	.1003
90.000	-.1061	-.0717	.1740	.0190	.1369	.0278
135.000	-.0900	-.0634			.0677	-.0248
180.000	-.0506	-.1430	.1959	-.0971	.0290	-.0683
225.000	-.2700	-.3943			.0241	.0000
270.000	-.3071	-.2360	.1173	-.1022	-.0667	-.1667
315.000	-.2722	-.2830			.1588	.1374

ALPHAL(3) =   4.315   BETAL (1) =   -3.956

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3221	.5028	.3650	-.6312	-.3961	-.1105	.0463	.0253	.0060	.0371	.3195	.5001	-.2289	-.2977	-.3861
45.000		.4574	.3354	-.6329	-.3889	-.1613	.0787	.0431	-.0091	.0241	.3696				
90.000		.3773	.2908	-.6477	-.4283	-.2905	.0896	.0229	-.0758	.0912	.3662		-.4362	-.4440	
135.000		.3080	.2188	-.6529	-.5005	-.0406	.0804	.0165	-.0588	.1808	.3763				
180.000	1.3221	.2777	.1794	-.6506	-.5452	-.0421	.0455	-.0030	-.0541	.2245	.3994	.6277	-.2905	-.3834	-.3888
225.000		.2962	.1587	-.7024	-.3195	-.2325	.0026	.0173	-.0317	.2351	.4085				
270.000		.4195	.4967	-.5246	-.4205	-.2269	-.0393	-.0049	-.0091	.1539	.2695	.5858	.1377	.1264	-.4019
315.000		.4950	.4385	-.6066	-.3539	-.1173	-.0013	-.0018	.0049	.0799	.2896				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0664	-.2357	.0702	-.0477	.2083	.1606
45.000	.0122	-.2121			.3409	.2688
90.000	-.0521	-.0413	.1968	.0777	.1799	.0848
135.000	.0433	-.0493			.1991	.1032
180.000	-.0468	-.0194	.3147	.0451	.2174	.1045

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)

ALPHAL(3) = 4.315   BETAL (1) = -3.956

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1967	-.3581			.2018	.0000
270.000	-.2598	-.2465	.0536	-.1617	-.0981	-.1270
315.000	-.2367	-.2666			-.0755	-.0858

ALPHAL(3) = 4.282   BETAL (2) = .148

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3067	.4650	.3561	-.6341	-.3665	-.0865	.0011	.0070	-.0151	-.0105	.3229	.5727	-.2292	-.3150	-.4301
45.000		.3775	.2899	-.6467	-.4215	-.1709	.0235	.0124	-.0513	-.0110	.3472			-.4698	-.4893
90.000		.3075	.2519	-.6573	-.4660	-.2183	.0406	.0014	-.1129	.0821	.3256				
135.000		.2693	.2229	-.6489	-.5011	-.0212	.0493	-.0166	-.0871	.1494	.3320				
180.000	1.3067	.2533	.2066	-.6529	-.5243	-.0548	.0301	-.0472	-.0815	.1848	.3374	.5688	-.2995	-.4144	-.4215
225.000		.2779	.1913	-.6961	-.3246	-.3037	.0080	-.0316	-.0486	.1945	.3355				
270.000		.3992	.5328	-.4959	-.4172	-.3002	-.0522	-.0438	-.0385	.1288	.3200	.5366	.0346	.1450	-.4617
315.000		.4798	.4599	-.6032	-.3449	-.1444	-.0234	-.0175	-.0110	.0460	.2963				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0628	-.2237	.1422	.0026	.2685	.2155
45.000	-.0143	-.1554			.2493	.1828
90.000	-.0924	-.0346	.2038	.0645	.1336	.0311
135.000	.0302	-.0751			.2785	.1810
180.000	-.0904	-.0173	.2783	.0418	.1548	.0451
225.000	-.2074	-.3440			.1582	.0000
270.000	-.2518	-.2363	.0306	-.1394	-.0768	-.1007
315.000	-.2235	-.2777			.0046	.0193

ALPHAL(3) = 4.231   BETAL (3) = 4.305

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2855	.4247	.3425	-.6354	-.3563	-.1556	-.0732	-.0199	-.0376	.0356	.3004	.6631	-.2557	-.3530	-.4830
45.000		.2994	.2341	-.66.4	-.4579	-.1752	-.0408	-.0264	-.0985	.0348	.3129			-.5056	-.5246
90.000		.2405	.2078	-.66??	-.5036	-.1245	.0045	-.0274	-.1272	.1156	.2739				
135.000		.2334	.1987	-.6493	-.5113	-.0382	.0142	-.0561	-.0989	.1575	.2731				
180.000	1.2855	.2245	.2053	-.6521	-.5164	-.1328	-.0204	-.0943	-.0665	.1750	.2356	.5009	-.2483	-.4367	-.4140
225.000		.2455	.2122	-.6882	-.3137	-.3159	-.0264	-.0783	-.0265	.1882	.2447				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS08)

ALPHAL(3) =   4.231   BETAL (3) =   4.305

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3671	.5683	-.4546	-.3821	-.3250	-.0566	-.0668	-.0272	.1423	.3043	.5123	.0184	.1879	-.4443
315.000		.4732	.4796	-.5966	-.3104	-.1936	-.0702	-.0206	-.0052	.0766	.2782				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0624	-.1919	.2581	.0840	.3769	.3073
45.000	-.0558	-.1304			.1974	.1122
90.000	-.1028	-.0363	.2267	.0290	.1000	-.0128
135.000	-.0328	-.0677			.1358	.0362
180.000	-.0358	-.1144	.2184	-.0645	.0862	-.0298
225.000	-.2281	-.3733			.0611	.0000
270.000	-.2815	-.2260	.1519	-.0956	-.0274	-.1277
315.000	-.2504	-.2563			.1368	.1225

ALPHAL(3) =   4.218   BETAL (4) =   6.391

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2700	.3959	.3305	-.6386	-.3289	-.1973	-.1021	-.0411	-.0308	.0022	.2792	.6662	-.2949	-.3982	-.4907
45.000		.2489	.2034	-.6735	-.4774	-.2132	-.0688	-.0481	-.0877	.0198	.3135				
90.000		.2080	.1820	-.6716	-.5208	-.0899	-.0204	-.0445	-.1077	.1039	.2620		-.5149	-.5328	
135.000		.2085	.1847	-.6536	-.5171	-.0538	-.0184	-.0778	-.0849	.1568	.2603				
180.000	1.2700	.1948	.2036	-.6554	-.5060	-.1687	-.0634	-.1215	-.0500	.1765	.2203	.4991	-.2641	-.4418	-.4228
225.000		.2194	.2135	-.6918	-.2884	-.2985	-.0607	-.1077	-.0248	.1804	.2463				
270.000		.3438	.5844	-.4210	-.3675	-.3027	-.0753	-.0809	-.0282	.1365	.3083	.4801	.0211	.2561	-.4652
315.000		.4603	.4885	-.5961	-.2771	-.2129	-.0885	-.0289	.0088	.0598	.2776				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0581	-.1896	.2919	.1181	.4351	.3223
45.000	-.0586	-.1179			.1793	.0925
90.000	-.1036	-.0390	.2445	.0106	.0814	-.0307
135.000	-.0380	-.0841			.1003	.0041
180.000	-.0124	-.1490	.2119	-.0959	.0398	-.0662
225.000	-.2452	-.3906			.0113	.0000
270.000	-.2986	-.2177	.1504	-.0699	-.0368	-.1559
315.000	-.2487	-.2603			.1754	.1519

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.100   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   8.000   ELV-OB =   4.000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAL(1) =   -6.685   BETAL (1) =   -3.892

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3028	.2539	.0911	-.6914	-.6142	-.2170	-.1450	-.1584	-.1335	-.0530	.1895	.3644	-.2266	-.2848	-.4888
45.000		.2764	.1572	-.6822	-.5511	-.2313	-.2223	-.2044	-.2339	-.1016	.1745				
90.000		.3647	.2590	-.6570	-.4600	-.3187	-.3251	-.3301	-.3259	-.2022	.0782		-.4847	-.4774	
135.000		.5194	.3696	-.6240	-.3599	.0612	-.1104	-.1626	-.2029	.0091	.2861				
180.000	1.3028	.6206	.4502	-.6015	-.2040	.1767	-.0132	-.0881	-.1575	.1172	.3785	.7032	-.0143	-.2939	-.5722
225.000		.5869	.5235	-.5776	-.2307	.1844	-.0403	-.0933	-.1223	.1415	.4525				
270.000		.3815	.4249	-.5074	-.3357	-.3681	-.6059	-.2320	-.0980	.0384	.3308	.8528	.3030	.3018	-.3619
315.000		.2411	.0069	-.7718	-.5269	-.4588	-.1163	-.1105	-.0901	.0280	.2990				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1954	-.2898	-.1053	-.2307	-.1211	-.2105
45.000	-.1509	-.2245			-.0733	-.0222
90.000	-.2945	-.1712	.0299	-.0752	.2092	.1458
135.000	-.0663	-.0833			.4740	.3308
180.000	-.1072	-.1062	.5354	.0405	.3866	.2349
225.000	-.3418	-.3264			.0821	.0000
270.000	-.3641	-.2847	-.0506	-.2359	-.1973	-.1792
315.000	-.3468	-.2854			-.1882	-.2040

ALPHAL(1) =   -6.637   BETAL (2) =   -1.831

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3011	.2315	.0971	-.6977	-.5957	-.1974	-.1188	-.1340	-.1341	-.0284	.2203	.4316	-.2378	-.3589	-.4820
45.000		.2515	.1399	-.6934	-.5515	-.1753	-.1742	-.1844	-.2386	-.1420	.1731				
90.000		.3169	.2215	-.6783	-.4658	-.3481	-.3098	-.3256	-.3087	-.1659	.0882		-.5017	-.4906	
135.000		.4865	.3356	-.6225	-.3597	.0287	-.1518	-.2091	-.2281	-.0133	.2514				
180.000	1.3011	.6167	.4497	-.5887	-.0410	.1393	-.0487	-.1285	-.1898	.0967	.3238	.6634	-.1206	-.3452	-.5831
225.000		.5940	.5352	-.5589	.1419	.1570	-.0633	-.1308	-.1331	.1138	.3827				
270.000		.3823	.4132	-.5331	-.2547	-.4104	-.5717	-.2130	-.0827	.0375	.3441	.7871	.2235	.2295	-.3649
315.000		.2275	-.0018	-.7678	-.5334	-.4328	-.1145	-.1162	-.0863	.0106	.2803				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(1) = -6.637   BETAL (2) = -1.831

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1904	-.2900	-.0471	-.2024	-.1010	-.1903
45.000	-.1589	-.2306			-.0698	-.0704
90.000	-.2639	-.1518	-.0198	-.1062	.1647	.1143
135.000	-.1119	-.0985			.4374	.3045
180.000	-.1552	-.1458	.5001	-.0091	.3585	.2187
225.000	-.3541	-.3076			.0578	.0000
270.000	-.3319	-.2751	-.0861	-.2320	-.1948	-.1957
315.000	-.3363	-.3080			-.1536	-.1709

ALPHAL(1) = -6.566   BETAL (3) =   .236

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2883	.2096	.1052	-.6941	-.5534	-.2063	-.1237	-.1143	-.1313	-.0162	.2236	.4434	-.3242	-.4262	-.5051
45.000		.2348	.1371	-.6924	-.5520	-.1471	-.1497	-.1735	-.2270	-.1162	.1657				
90.000		.2946	.1913	-.6865	-.4831	-.3669	-.3021	-.3267	-.2757	-.1244	.1402		-.5308	-.5084	
135.000		.4495	.3017	-.6336	-.3417	-.0105	-.2123	-.2520	-.2643	-.0401	.2511				
180.000	1.2883	.6067	.4465	-.5892	.1279	.0795	-.1166	-.1780	-.1891	.0727	.2802	.6427	-.2180	-.4032	-.6235
225.000		.5965	.5493	-.5510	.2576	.1424	-.0978	-.1592	-.1486	.1045	.3191				
270.000		.3582	.4274	-.5109	.0450	-.4252	-.5966	-.2290	-.0973	.0266	.2923	.7137	.1984	.2443	-.4552
315.000		.1984	-.0064	-.7677	-.5604	-.4036	-.1497	-.1092	-.0888	.0086	.2224				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1738	-.3056	.0438	-.1689	-.0014	-.1123
45.000	-.1498	-.2177			-.0344	-.1117
90.000	-.2547	-.1201	-.0066	-.1156	.1168	.0772
135.000	-.1322	-.1111			.3883	.2854
180.000	-.1812	-.1808	.4817	-.0355	.3484	.2077
225.000	-.3478	-.3051			-.0179	.0000
270.000	-.3079	-.2927	-.1205	-.2462	-.2168	-.2064
315.000	-.3143	-.3493			-.1327	-.1215

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(1) = -6.536   BETAL (4) =   2.301

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2757	.1668	.1070	-.6929	-.5456	-.1982	-.1252	-.1047	-.1161	.0140	.2026	.5249	-.3967	-.4004	-.5398
45.000		.2109	.1343	-.6883	-.5566	-.1352	-.1464	-.1532	-.1893	-.0375	.1475				
90.000		.2500	.1662	-.6916	-.5077	-.3870	-.2823	-.3119	-.2531	-.0519	.1783		-.5404	-.5266	
135.000		.3925	.2635	-.6505	-.3042	-.1023	-.2840	-.2954	-.2976	-.0437	.2265				
180.000	1.2757	.5789	.4457	-.5912	.1374	.0372	-.1786	-.2179	-.2202	.0602	.2045	.6399	-.2709	-.4748	-.6172
225.000		.5832	.5658	-.5352	.2374	.1334	-.1311	-.1789	-.1530	.1094	.2459				
270.000		.3046	.4293	-.5104	.1106	-.4373	-.5962	-.2157	-.0890	.0442	.2531	.6913	.1804	.2556	-.4755
315.000		.1484	.0047	-.7682	-.5469	-.4112	-.1594	-.0940	-.0847	.0202	.1807				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1294	-.3481	.1220	-.2191	.2391	.1292
45.000	-.1755	-.2086			.0000	-.1097
90.000	-.2560	-.1001	.0345	-.0998	.0381	-.0052
135.000	-.1771	-.1223			.3101	.2492
180.000	-.2043	-.2335	.4124	-.0897	.2675	.1583
225.000	-.3625	-.3073			-.0683	.0000
270.000	-.3427	-.3090	-.1693	-.2441	-.1903	-.1885
315.000	-.3061	-.3735			-.0879	-.0553

ALPHAL(1) = -6.515   BETAL (5) =   4.365

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2534	.1175	.1043	-.7000	-.5747	-.1790	-.1190	-.0920	-.0874	.0268	.1672	.4095	-.3632	-.4252	-.5402
45.000		.1695	.1244	-.6974	-.5610	-.1172	-.1407	-.1381	-.1557	-.0106	.1717				
90.000		.2028	.1356	-.7046	-.5291	-.4106	-.2864	-.2929	-.2236	-.0090	.2108		-.5640	-.5699	
135.000		.3375	.2232	-.6687	-.2018	-.2082	-.3602	-.3446	-.2923	-.0562	.2016				
180.000	1.2534	.5371	.4396	-.5928	.0929	-.0088	-.2331	-.2594	-.2418	.0498	.0947	.6461	-.2521	-.5205	-.6101
225.000		.5568	.5796	-.4680	.2251	.1265	-.1707	-.1954	-.1021	.1022	.1845				
270.000		.2502	.4205	-.5133	.1177	-.3730	-.5338	-.2126	-.0631	.0557	.2183	.6564	.1912	.2868	-.4773
315.000		.0644	.0252	-.7640	-.5499	-.3869	-.1671	-.1118	-.0804	.0248	.1322				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1130	-.3464	.1115	-.1011	.3430	.2546
45.000	-.1677	-.2321			.0286	-.0689
90.000	-.2541	-.1010	.0624	-.0550	-.0075	-.0810
135.000	-.2163	-.1621			.2351	.1458
180.000	-.1766	-.2734	.2735	-.1395	.0637	-.0402

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(1) = -6.515 BETAL (5) =   4.365

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3450	-.3427			-.0813	.0000
270.000	-.3440	-.3141	-.1044	-.2143	-.1792	-.2173
315.000	-.2963	-.3676			-.0289	-.0195

ALPHAL(2) = -4.512 BETAL (1) = -6.037

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3298	.3117	.1585	-.6823	-.5714	-.2275	-.0752	-.1106	-.1155	-.0089	.2487	.3320	-.2918	-.1868	-.3971
45.000		.3501	.2172	-.6718	-.4950	-.1907	-.1278	-.1544	-.1947	-.0380	.2310				
90.000		.4338	.3140	-.6409	-.4100	-.1910	-.1882	-.2311	-.2713	-.1194	.1552		-.4788	-.4733	
135.000		.5211	.3770	-.6092	-.3524	.1046	.0086	-.0827	-.1037	.0990	.3474				
180.000	1.3298	.5555	.3905	-.6099	-.3521	.2034	.0459	-.0518	-.0625	.1696	.4334	.7216	-.0145	-.2987	-.5241
225.000		.5411	.4515	-.5988	-.3501	.1906	-.0018	-.0824	-.0802	.1709	.5066				
270.000		.4440	.4981	-.4519	-.4800	-.3742	-.5856	-.2762	-.1007	.0274	.2765	.9237	.3731	.3819	-.3361
315.000		.3353	.1306	-.7164	-.5714	-.4067	-.0772	-.0931	-.0641	.0392	.2937				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1474	-.2804	-.1827	-.2744	-.1444	-.1977
45.000	-.1566	-.2614			.0705	.1033
90.000	-.3223	-.1602	.0094	.0247	.2870	.1843
135.000	.0105	-.0367			.4541	.3355
180.000	-.1060	-.0417	.4693	.1228	.3800	.2272
225.000	-.3253	-.3748			.1856	.0000
270.000	-.3517	-.3086	-.0254	-.2487	-.2055	-.1950
315.000	-.3246	-.2928			-.2071	-.2198

ALPHAL(2) = -4.469 BETAL (2) = -3.982

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3248	.2865	.1525	-.6726	-.5662	-.2108	-.0707	-.0960	-.1021	-.0068	.2498	.3356	-.2634	-.2716	-.4138
45.000		.3225	.2059	-.6687	-.5051	-.1396	-.0930	-.1390	-.1636	-.0433	.2446				
90.000		.3927	.2898	-.6494	-.4269	-.2115	-.1892	-.2228	-.2500	-.1184	.1727		-.4780	-.4737	
135.000		.4854	.3589	-.6123	-.3701	.0742	-.0247	-.1002	-.1399	.0676	.3301				
180.000	1.3248	.5381	.3989	-.6043	-.3284	.1800	.0138	-.0733	-.1249	.1434	.4025	.7095	-.0844	-.3240	-.5321
225.000		.5378	.4693	-.5893	-.3334	.1847	-.0293	-.1034	-.1138	.1499	.4658				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(2) = -4.469   BETAL (2) = -3.982

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4290	.4988	-.4924	-.4587	-.3544	-.5857	-.2500	-.0887	.0383	.2984	.8675	.3120	.3478	-.3325
315.000		.3088	.1197	-.7189	-.5084	-.4232	-.0888	-.0807	-.0685	.0268	.2901				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1657	-.2688	-.1374	-.2260	-.1212	-.1844
45.000	-.1539	-.1990			.0424	.0703
90.000	-.2922	-.1445	-.0248	.0106	.2523	.1673
135.000	-.0293	-.0654			.4395	.3259
180.000	-.1192	-.0811	.4674	.0862	.3727	.2260
225.000	-.3325	-.3409			.1043	.0000
270.000	-.3479	-.2975	-.0527	-.2318	-.1851	-.1770
315.000	-.3272	-.2931			-.1835	-.2135

ALPHAL(2) = -4.387   BETAL (3) =   .156

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3091	.2517	.1623	-.6759	-.5516	-.2114	-.0730	-.0762	-.0931	.0009	.2547	.4177	-.2947	-.3732	-.4507
45.000		.2786	.1916	-.6719	-.5145	-.0969	-.0827	-.1158	-.1281	-.0187	.2285				
90.000		.3309	.2405	-.6631	-.4673	-.2197	-.1836	-.2252	-.2015	-.0738	.1951		-.5131	-.5081	
135.000		.4249	.3108	-.6299	-.3967	.0108	-.1281	-.1804	-.2021	.0101	.2890				
180.000	1.3091	.5372	.4025	-.6035	-.2569	.1175	-.0966	-.1551	-.1576	.0900	.3005	.6607	-.2461	-.4323	-.5639
225.000		.5468	.5017	-.5784	-.2632	.1647	-.1116	-.1531	-.1556	.1184	.3192				
270.000		.3982	.5031	-.4961	-.4094	-.3261	-.5849	-.2060	-.0927	.0405	.2907	.7050	.1009	.1774	-.4907
315.000		.2671	.1226	-.7189	-.4707	-.4323	-.0966	-.0820	-.0767	.0163	.2437				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1532	-.3369	.0588	-.1528	.0394	-.0574
45.000	-.0820	-.2002			.0166	-.0483
90.000	-.2228	-.0906	.0059	-.0366	.1419	.0932
135.000	-.1057	-.0846			.3270	.2578
180.000	-.1821	-.1422	.3987	.0186	.3221	.1986
225.000	-.3135	-.3118			.0238	.0000
270.000	-.3098	-.2793	-.0785	-.2359	-.1921	-.1740
315.000	-.2907	-.3306			-.1427	-.1331

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (RETS09)

ALPHAL(2) = -4.353 BETAL (4) = 4.277

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2861	.1953	.1634	-.6743	-.5493	-.1976	-.0874	-.0618	-.0791	.0364	.2189	.4680	-.3776	-.4475	-.5016
45.000		.2288	.1764	-.6691	-.5299	-.0926	-.0819	-.0918	-.1216	.0403	.2434				
90.000		.2537	.1918	-.6733	-.5121	-.2334	-.1853	-.2018	-.1836	.0400	.2431		-.5426	-.5676	
135.000		.3257	.2430	-.6552	-.4277	-.0896	-.2396	-.2580	-.2181	.0128	.2339				
180.000	1.2861	.4685	.3948	-.6116	.0018	.0008	-.2246	-.2210	-.2112	.0780	.1633	.6248	-.2296	-.4891	-.5613
225.000		.5145	.5234	-.5688	.2002	.1242	-.1872	-.1801	-.0976	.1162	.2061				
270.000		.3375	.5325	-.4639	-.0621	-.3178	-.4050	-.1817	-.0635	.0694	.2392	.5723	.1556	.2314	-.4701
315.000		.2009	.1436	-.7195	-.5011	-.3913	-.1193	-.0846	-.0658	.0420	.1704				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1397	-.3074	.0883	-.0411	.2998	.2388
45.000	-.0534	-.2546			.1759	.0543
90.000	-.1988	-.0676	.0630	-.0057	.0332	-.0618
135.000	-.1793	-.0890			.1895	.1331
180.000	-.1445	-.2335	.2835	-.1247	.0864	-.0200
225.000	-.3041	-.3456			-.0437	.0000
270.000	-.3151	-.2860	-.0323	-.1828	-.1477	-.1878
315.000	-.2743	-.3533			-.0368	-.0164

ALPHAL(2) = -4.341 BETAL (5) = 6.342

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2716	.1459	.1567	-.6769	-.5363	-.2051	-.0913	-.0572	-.0734	.0423	.2043	.3917	-.3146	-.3983	-.4960
45.000		.1849	.1664	-.6791	-.5340	-.0815	-.0858	-.0779	-.1211	.0485	.2380				
90.000		.2082	.1674	-.6769	-.5256	-.2439	-.1853	-.1920	-.1788	.0498	.2315		-.5406	-.5462	
135.000		.2853	.2097	-.6641	-.4259	-.1644	-.2813	-.2964	-.1778	.0145	.1919				
180.000	1.2716	.4441	.3838	-.6102	.0681	-.0387	-.2667	-.2543	-.1817	.0668	.0968	.4848	-.2759	-.4678	-.5334
225.000		.4979	.5212	-.5657	.2097	.1141	-.2217	-.2053	-.0761	.1046	.1700				
270.000		.2975	.5438	-.4396	.0165	-.3067	-.3355	-.1622	-.0650	.0743	.2151	.4395	.0341	.0187	-.4252
315.000		.1436	.1517	-.7126	-.4936	-.4043	-.1185	-.0802	-.0584	.0435	.1653				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1388	-.2749	.1450	.0426	.3238	.2318
45.000	-.0597	-.2672			.3335	.2191
90.000	-.1791	-.1007	.1194	-.0358	.0426	-.0604
135.000	-.1515	-.1228			.0594	-.0388
180.000	-.1860	-.2020	.1550	-.1443	.0060	-.0679

ARCII-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(2) =   -4.341   BETAL (5) =   6.342

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3103	-.3772			-.0552	.0000
270.000	-.3257	-.2803	-.0193	-.1751	-.1745	-.2237
315.000	-.2923	-.3351			.0115	.0271

ALPHAL(3) =   -2.313   BETAL (1) =   -6.070

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3371	.3589	.2112	-.6750	-.5334	-.1927	-.0557	-.0785	-.0799	.0431	.2608	.3495	-.3146	.0532	-.4058
45.000		.3927	.2626	-.6661	-.4624	-.2098	-.0382	-.0910	-.1291	.0106	.2670				
90.000		.4442	.3323	-.6411	-.4038	-.0775	-.0833	-.1359	-.1743	-.0235	.2460		-.4616	-.4425	
135.000		.4797	.3501	-.6159	-.3840	.1395	.0595	-.0353	-.0762	.1400	.3801				
180.000	1.3371	.4853	.3353	-.6229	-.4185	.1990	.0615	-.0405	-.0543	.1977	.4405	.6949	-.0803	-.2976	-.4780
225.000		.4902	.3866	-.6229	-.4087	.1352	.0046	-.0773	-.0756	.1957	.5046				
270.000		.4652	.5407	-.4996	-.5696	-.3660	-.5040	-.1750	-.0589	.0827	.2959	.9094	.3738	.3800	-.3265
315.000		.3806	.2191	-.6825	-.5672	-.3378	-.0979	-.0835	-.0415	.0436	.2911				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1285	-.2735	-.1958	-.2662	-.0883	-.0955
45.000	-.1016	-.2913			.1420	.1265
90.000	-.2295	-.1248	.0574	.0668	.3021	.2253
135.000	.0219	-.0730			.3734	.2727
180.000	-.1373	-.0377	.4197	.1232	.3358	.1994
225.000	-.3054	-.3705			.1735	.0000
270.000	-.3240	-.2999	-.0244	-.2489	-.1950	-.1858
315.000	-.3048	-.2985			-.2057	-.2055

ALPHAL(3) =   -2.252   BETAL (2) =   -1.981

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3235	.3074	.2098	-.6704	-.5216	-.2006	-.0420	-.0442	-.0736	.0002	.2689	.3765	-.2659	-.2092	-.3854
45.000		.3298	.2364	-.6635	-.4807	-.1308	-.0189	-.0726	-.1044	-.0106	.2761				
90.000		.3637	.2805	-.6513	-.4385	-.1020	-.0734	-.1386	-.1451	-.0224	.2456		-.4582	-.4615	
135.000		.4143	.3108	-.6228	-.4003	.0681	-.0072	-.0817	-.1358	.0775	.3493				
180.000	1.3235	.4561	.3474	-.6187	-.3685	.1529	-.0069	-.0921	-.1112	.1398	.3903	.6977	-.1652	-.3617	-.4969
225.000		.4815	.4185	-.6110	-.3756	.1281	-.0559	-.1171	-.1220	.1475	.4231				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(3) =   -2.252   BETAL (2) =   -1.981

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
270.000		.4361	.5542	-.4841	-.5678	-.3642	-.4865	-.1886	-.0735	.0546	.3023	.8250	.2961	.3375	-.3093
315.000		.3417	.2206	-.6841	-.4924	-.3875	-.0854	-.0759	-.0650	.0179	.2656				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1613	-.2823	-.1247	-.1662	-.0044	-.0329
45.000	-.1107	-.2432			.1293	.0897
90.000	-.1983	-.0965	.0161	.0566	.2237	.1620
135.000	-.0369	-.0741			.3405	.2518
180.000	-.1548	-.1012	.3872	.0732	.3314	.1914
225.000	-.3242	-.3161			.0427	.0000
270.000	-.3168	-.2820	-.0848	-.2146	-.1821	-.1817
315.000	-.2900	-.3098			-.1977	-.1827

ALPHAL(3) =   -2.203   BETAL (3) =   2.149

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
.000	1.3068	.2712	.2110	-.6641	-.5157	-.2252	-.0504	-.0368	-.0626	.0339	.2360	.3850	-.3606	-.3363	-.4467
45.000		.2846	.2181	-.6565	-.5003	-.1151	-.0296	-.0558	-.0967	.0451	.2675				
90.000		.3027	.2418	-.6565	-.4832	-.1215	-.0913	-.1291	-.1398	.0539	.2534		-.5284	-.5524	
135.000		.3625	.2723	-.6370	-.4317	.0010	-.0961	-.1534	-.1758	.0661	.2816				
180.000	1.3068	.4400	.3521	-.6222	-.3536	.0707	-.1130	-.1677	-.1850	.1044	.2481	.5814	-.2831	-.4749	-.5455
225.000		.4808	.4506	-.6055	-.3280	.1152	-.1370	-.1570	-.1391	.1427	.2698				
270.000		.4108	.5767	-.4668	-.5469	-.3561	-.3596	-.1713	-.0664	.0650	.2645	.7092	.1052	.2905	-.5288
315.000		.3152	.2378	-.6842	-.5061	-.3907	-.0867	-.0617	-.0591	.0369	.2040				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1474	-.2897	-.0228	-.0952	.1981	.1645
45.000	-.0249	-.2629			.1603	.0451
90.000	-.1690	-.0677	.0276	.0364	.0931	.0035
135.000	-.1346	-.0556			.1665	.1086
180.000	-.2080	-.1397	.2943	-.0345	.2334	.1250
225.000	-.2753	-.3183			.0327	.0000
270.000	-.2967	-.2768	-.0468	-.1969	-.1539	-.1525
315.000	-.2702	-.3294			-.1208	-.0904

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ALPHAL(3) =   -2.183   BETAL (4) =   6.267

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2869	.2218	.2015	-.6662	-.5018	-.2515	-.0719	-.0472	-.0579	.0472	.2183	.3481	-.2487	-.2818	-.4467
45.000		.2278	.1870	-.6701	-.5155	-.0985	-.0550	-.0527	-.0943	.0646	.2546				
90.000		.2422	.1969	-.6691	-.5159	-.1263	-.1017	-.1215	-.1696	.0688	.2527			-.5385	-.5139
135.000		.2859	.2172	-.6551	-.4570	-.0888	-.1855	-.2144	-.1137	.0692	.2275				
180.000	1.2869	.3893	.3338	-.6267	-.3184	-.0390	-.2163	-.2264	-.0915	.1019	.1438	.5169	-.2136	-.4142	-.5116
225.000		.4537	.4662	-.6005	-.2706	.0775	-.1923	-.1845	-.0421	.1264	.2141				
270.000		.3667	.6048	-.4265	-.5460	-.3623	-.3348	-.1485	-.0398	.0927	.2615	.5697	.0887	.1241	-.4516
315.000		.2665	.2481	-.6782	-.4754	-.3471	-.1102	-.0660	-.0378	.0492	.2104				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1690	-.2181	.0843	.0174	.1892	.1214
45.000	-.0359	-.2462			.3039	.2084
90.000	-.1664	-.0947	.0983	-.0352	.0739	-.0215
135.000	-.1475	-.0930			.0697	-.0187
180.000	-.1392	-.1810	.1694	-.1297	.0087	-.0740
225.000	-.3028	-.3804			-.0235	.0000
270.000	-.3188	-.2814	.0012	-.1709	-.1417	-.1849
315.000	-.2770	-.3389			.0070	.0363

ALPHAL(4) =   -.123   BETAL (1) =   -6.088

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3349	.4014	.2584	-.6585	-.4911	-.1524	-.0164	-.0502	-.0587	.0573	.3083	.3629	-.2381	-.0772	-.4080
45.000		.4251	.3008	-.6484	-.4325	-.2080	.0287	-.0262	-.0795	.0418	.3283				
90.000		.4425	.3403	-.6349	-.3940	-.1548	.0420	-.0246	-.0856	.0769	.3244			-.4310	-.4284
135.000		.4287	.3143	-.6246	-.4198	.0976	.0933	.0043	-.0584	.1769	.4119				
180.000	1.3349	.4155	.2811	-.6340	-.4600	.1628	.0768	-.0216	-.0535	.2261	.4611	.6780	-.0897	-.3036	-.4442
225.000		.4300	.3140	-.6437	-.4948	-.0637	.0248	-.0580	-.0775	.2320	.5181				
270.000		.4661	.5519	-.4904	-.5279	-.3358	-.3487	-.1655	-.0525	.1064	.2582	.9113	.3834	.3573	-.3145
315.000		.4218	.2959	-.6534	-.5032	-.2743	-.0921	-.0551	-.0257	.0736	.3044				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1476	-.3130	-.1425	-.2062	.0351	.0224
45.000	-.0479	-.2727			.2253	.1733
90.000	-.1525	-.1027	.0318	.1141	.2832	.2016
135.000	.0267	-.0776			.3583	.2520
180.000	-.1158	-.0263	.3557	.1060	.2829	.1615

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ALPHAL(4) =   -.123   BETAL (1) =   -6.088

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2801	-.3837			.1440	.0000
270.000	-.3183	-.3066	-.0329	-.2400	-.1864	-.1723
315.000	-.2918	-.3157			-.2059	-.1851

ALPHAL(4) =   -.102   BETAL (2) =   -4.041

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3324	.3750	.2594	-.6551	-.4851	-.1600	-.0121	-.0335	-.0514	.0265	.3070	.3876	-.2138	-.1280	-.3920
45.000		.3898	.2852	-.6463	-.4419	-.2051	.0365	-.0209	-.0663	.0209	.3267				
90.000		.4023	.3112	-.6367	-.4131	-.1375	.0423	-.0287	-.0829	.0621	.3155			-.4308	-.4325
135.000		.4049	.2977	-.6215	-.4262	.0750	.0783	-.0086	-.0854	.1537	.3924				
180.000	1.3324	.3947	.2856	-.6269	-.4496	.1423	.0576	-.0426	-.0743	.2025	.4402	.6806	-.1132	-.3157	-.4585
225.000		.4190	.3276	-.6366	-.4756	-.0364	.0050	-.0748	-.0857	.2101	.4946				
270.000		.4528	.5672	-.4797	-.5235	-.3387	-.2991	-.1523	-.0494	.0940	.2841	.8832	.3574	.3564	-.3115
315.000		.4023	.2990	-.6500	-.4943	-.2858	-.0867	-.0537	-.0344	.0501	.2946				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1546	-.3095	-.1053	-.1749	.0572	.0468
45.000	-.0540	-.2458			.2148	.1631
90.000	-.1533	-.0832	.0253	.1049	.2414	.1703
135.000	-.0005	-.0692			.3136	.2256
180.000	-.1432	-.0407	.3386	.1004	.2879	.1699
225.000	-.2960	-.3704			.1277	.0000
270.000	-.3118	-.3004	-.0374	-.2126	-.1732	-.1645
315.000	-.2850	-.3131			-.2048	-.1803

ALPHAL(4) =   -.085   BETAL (3) =   .061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3190	.3384	.2611	-.6530	-.4779	-.1667	-.0281	-.0223	-.0527	.0070	.2726	.4290	-.3289	-.2914	-.4053
45.000		.3433	.2619	-.6507	-.4662	-.1680	.0060	-.0219	-.0755	.0280	.3011				
90.000		.3519	.2764	-.6444	-.4548	-.0838	-.0024	-.0557	-.1063	.0653	.2982			-.4741	-.4965
135.000		.3657	.2813	-.6333	-.4464	.0362	.0112	-.0699	-.1218	.1119	.3463				
180.000	1.3190	.3841	.3034	-.6323	-.4262	.0919	-.0132	-.1044	-.1326	.1538	.3712	.6808	-.2397	-.4205	-.5057
225.000		.4187	.3639	-.6340	-.4434	-.0255	-.0567	-.1148	-.1342	.1688	.3738				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(4) =   -.085   BETAL (3) =   .061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4361	.5914	-.4682	-.4987	-.3538	-.2505	-.1430	-.0667	.0689	.2955	.7948	.2505	.2858	-.4712
315.000		.3808	.3139	-.6548	-.4739	-.2989	-.0733	-.0495	-.0562	.0303	.2509				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1459	-.2890	-.0721	-.1252	.1464	.1080
45.000	-.0379	-.2621			.1464	.0781
90.000	-.1367	-.0766	.0287	.0762	.1933	.1123
135.000	-.0645	-.0551			.2567	.1774
180.000	-.1720	-.0692	.2713	.0563	.2407	.1387
225.000	-.2947	-.3011			.0212	.0000
270.000	-.2907	-.2644	-.0598	-.2071	-.1629	-.1575
315.000	-.2594	-.3071			-.1580	-.1240

ALPHAL(4) =   -.071   BETAL (4) =   4.175

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3002	.3079	.2550	-.6550	-.4638	-.2099	-.0540	-.0326	-.0566	.0411	.2392	.3967	-.2153	-.3370	-.4137
45.000		.2832	.2247	-.6619	-.4937	-.1576	-.0245	-.0342	-.0920	.0631	.2621		-.5186	-.5150	
90.000		.2832	.2303	-.6550	-.4746	-.0674	-.0319	-.0709	-.1486	.1043	.2559				
135.000		.3043	.2412	-.6440	-.4746	-.0365	-.0628	-.1323	-.1387	.1190	.2671				
180.000	1.3002	.3493	.2974	-.6339	-.4021	-.0241	-.1122	-.1690	-.1265	.1371	.2228	.5697	-.2232	-.4686	-.4919
225.000		.4095	.3855	-.6289	-.4015	-.0332	-.1372	-.1456	-.0447	.1678	.2474				
270.000		.4141	.6110	-.4454	-.5148	-.3495	-.2694	-.1317	-.0365	.0958	.2877	.7079	.1455	.3711	-.4840
315.000		.3674	.3362	-.6510	-.4605	-.2957	-.0904	-.0453	-.0339	.0552	.2372				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1302	-.2294	.0690	-.0262	.1571	.0889
45.000	-.0736	-.1962			.2056	.1162
90.000	-.1308	-.0976	.1041	-.0096	.1457	.0242
135.000	-.1328	-.0456			.0781	.0026
180.000	-.1184	-.1653	.2689	-.0954	.1266	.0154
225.000	-.2740	-.3840			.0281	.0000
270.000	-.2914	-.2753	.0573	-.1569	-.1065	-.1435
315.000	-.2696	-.3209			-.0122	.0298

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(4) =   -.075   BETAL (5) =   6.248

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2904	.2741	.2432	-.6595	-.4553	-.2347	-.0753	-.0499	-.0417	.0389	.2509	.4635	-.2386	-.3752	-.4516
45.000		.2468	.2026	-.6680	-.5108	-.1387	-.0473	-.0488	-.0807	.0648	.2640				
90.000		.2537	.2062	-.6674	-.5115	-.0651	-.0515	-.0820	-.1422	.1035	.2594		-.5419	-.5708	
135.000		.2718	.2171	-.6560	-.4899	-.0772	-.1059	-.1584	-.1001	.1104	.2558				
180.000	1.2904	.3278	.2914	-.6408	-.3871	-.0685	-.1651	-.1994	-.0703	.1297	.1831	.5399	-.1997	-.3924	-.4898
225.000	.1	.4035	.3911	-.6331	-.3801	-.0265	-.1833	-.1669	-.0230	.1517	.2417				
270.000		.4054	.6206	-.4405	-.5205	-.3143	-.2598	-.1353	-.0247	.0996	.2886	.6581	.1671	.2814	-.4714
315.000		.3531	.3398	-.6539	-.4459	-.2891	-.1114	-.0540	-.0152	.0579	.2346				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1151	-.2189	.1332	.0251	.2694	.1981
45.000	-.0884	-.1763			.1352	.0462
90.000	-.1391	-.1024	.1567	-.0359	.1414	.0515
135.000	-.1340	-.0779			.0632	-.0215
180.000	-.1027	-.1776	.1762	-.1238	.0205	-.0698
225.000	-.3046	-.3986			.0052	.0000
270.000	-.3213	-.2814	.0765	-.1460	-.0987	-.1606
315.000	-.2834	-.3361			.0671	.0890

ALPHAL(5) =   2.087   BETAL (1) =   -6.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3320	.4583	.3083	-.6470	-.4459	-.1090	.0120	-.0069	-.0244	.0597	.3247	.4385	-.2083	-.2477	-.3733
45.000		.4590	.3310	-.6408	-.4061	-.1783	.0607	.0256	-.0319	.0698	.3634				
90.000		.4317	.3287	-.6372	-.4111	-.2108	.0926	.0389	-.0361	.1318	.3676		-.4070	-.3917	
135.000		.3820	.2705	-.6372	-.4560	.0243	.0974	.0227	-.0505	.2017	.4204				
180.000	1.3320	.3508	.2225	-.6472	-.5132	.0618	.0718	-.0092	-.0564	.2496	.4670	.6545	-.0892	-.2804	-.3897
225.000		.3702	.2324	-.6737	-.4124	-.2041	.0269	-.0280	-.0758	.2568	.5260				
270.000		.4514	.5372	-.4958	-.4536	-.2714	-.1008	-.1128	-.0574	.0928	.1630	.9307	.4342	.3584	-.2995
315.000		.4652	.3652	-.6341	-.4315	-.2084	-.0400	-.0215	-.0187	.0787	.3065				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1305	-.3131	-.0642	-.1726	.1307	.1069
45.000	.0093	-.2900			.3113	.2497
90.000	-.0947	-.0691	.1248	.1209	.2474	.1737
135.000	.0424	-.0681			.3165	.2331
180.000	-.0828	-.0329	.3012	.0881	.2416	.1172

ARCII-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(5) = 2.087   BETAL (1) = -6.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2522	-.3792			.2033	.0000
270.000	-.2903	-.2782	-.0080	-.2226	-.1648	-.1533
315.000	-.2733	-.3040			-.1859	-.1638

ALPHAL(5) = .2.087   BETAL (2) = -1.974

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3221	.4108	.3045	-.6472	-.4352	-.1272	-.0125	-.0154	-.0359	.0079	.2808	.4493	-.2392	-.2817	-.3708
45.000		.3812	.2937	-.6469	-.4349	-.1728	.0386	.0015	-.0512	.0109	.3227				
90.000		.3496	.2812	-.6459	-.4453	-.1567	.0646	-.0021	-.0821	.0784	.3211			-.4265	-.4235
135.000		.3302	.2525	-.6385	-.4698	.0248	.0643	-.0183	-.0888	.1489	.3641				
180.000	1.3221	.3207	.2387	-.6453	-.4939	.0335	.0379	-.0515	-.0928	.1922	.4064	.6353	-.2043	-.3474	-.4252
225.000		.3532	.2581	-.6701	-.3933	-.2064	.0080	-.0606	-.1069	.1929	.4349				
270.000		.4299	.5586	-.4835	-.4141	-.3007	-.0639	-.0675	-.0531	.0968	.2483	.7705	.2897	.2441	-.3191
315.000		.4414	.3763	-.6302	-.4376	-.2229	-.0518	-.0161	-.0255	.0446	.2548				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1133	-.2577	-.0357	-.0936	.1273	.0931
45.000	-.0464	-.2362			.2439	.1866
90.000	-.1146	-.0528	.0928	.0967	.1915	.0990
135.000	.0033	-.0507			.2810	.2016
180.000	-.1249	-.0370	.2812	.0681	.2315	.1168
225.000	-.2688	-.3277			.1058	.0000
270.000	-.2872	-.2522	-.0094	-.1870	-.1455	-.1451
315.000	-.2594	-.2962			-.1481	-.1248

ALPHAL(5) = 2.059   BETAL (3) = 2.141

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1955	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3043	.3780	.2995	-.6446	-.4196	-.1496	-.0417	-.0232	-.0463	.0198	.2824	.5285	-.2299	-.3277	-.4288
45.000		.3278	.2565	-.6561	-.4614	-.1757	-.0014	-.0131	-.0788	.0456	.2880				
90.000		.3045	.2460	-.6555	-.4779	-.1068	.0200	-.0300	-.1168	.0993	.2670			-.4804	-.5001
135.000		.3025	.2391	-.6390	-.4809	-.0150	.0161	-.0684	-.1129	.1436	.2991				
180.000	1.3043	.3064	.2529	-.6396	-.4792	-.0200	-.0167	-.1080	-.1197	.1570	.2850	.5810	-.2539	-.4403	-.4630
225.000		.3376	.2913	-.6594	-.4189	-.1838	-.0138	-.0892	-.0791	.1737	.2867				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(5) =   2.059   BETAL (3) =   2.141

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4152	.5893	-.4625	-.4219	-.3462	-.0664	-.0606	-.0585	.1131	.3112	.5902	.1060	.2097	-.4239
315.000		.4270	.3991	-.6226	-.4233	-.2175	-.0836	-.0229	-.0267	.0584	.272!				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0986	-.2298	.0?17	-.0054	.2370	.1824
45.000	-.0296	-.1638			.1840	.1164
90.000	-.1186	-.0589	.1106	.0551	.1545	.0547
135.000	-.0505	-.0726			.2058	.1238
180.000	-.1373	-.0753	.1973	-.0102	.1353	.0177
225.000	-.2580	-.3224			.0833	.0000
270.000	-.2738	-.2590	.0093	-.1574	-.1038	-.1201
315.000	-.2533	-.2986			-.0128	.0331

ALPHAL(5) =   2.042   BETAL (4) =   6.264

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2819	.3351	.2845	-.6519	-.4037	-.2060	-.0872	-.0528	-.0196	.0244	.2879	.6546	-.3160	-.4003	-.4947
45.000		.2526	.2082	-.6709	-.4962	-.1829	-.0447	-.0452	-.0777	.0591	.2951		-.5263	-.5398	
90.000		.2401	.2019	-.6647	-.5126	-.0556	-.0261	-.0579	-.1131	.0948	.2591				
135.000		.2438	.2062	-.6508	-.5009	-.0529	-.0557	-.1147	-.0788	.1400	.2637				
180.000	1.2819	.2553	.2459	-.6468	-.4573	-.1008	-.1165	-.1586	-.0539	.1524	.2048	.5115	-.2331	-.4213	-.4681
225.000		.3052	.3057	-.6588	-.3746	-.1595	-.1009	-.1267	-.0330	.1671	.2441				
270.000		.3729	.6220	-.4235	-.4416	-.3263	-.1126	-.0803	-.0543	.1200	.3158	.5431	.0510	.2291	-.4980
315.000		.4041	.4252	-.6260	-.3856	-.2114	-.1233	-.0358	-.0015	.0571	.2682				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0836	-.2108	.2527	.0840	.3747	.2879
45.000	-.0672	-.1431			.1890	.0931
90.000	-.1182	-.0706	.1620	.0076	.1285	.0206
135.000	-.0954	-.0673			.0632	-.0302
180.000	-.0532	-.1535	.1887	-.1118	.0209	-.0724
225.000	-.2786	-.3913			.0202	.0000
270.000	-.3178	-.2410	.1165	-.1108	-.0715	-.1701
315.000	-.2712	-.2907			.1454	.1199

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(6) =   4.211   BETAL (1) =   -6.006

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3215	.5177	.3541	-.6333	-.4018	-.1082	.0344	.0218	.0026	.0735	.3026	.4491	-.2434	-.2687	-.3715
45.000		.4911	.3502	-.6287	-.3697	-.1487	.0789	.0507	-.0010	.0784	.3679				
90.000		.4133	.3095	-.6435	-.4105	-.2723	.0799	.0422	-.0413	.1276	.3758		-.4178	-.4132	
135.000		.3315	.2172	-.6496	-.4959	-.0266	.0698	.0244	-.0449	.2053	.3882				
180.000	1.3215	.2976	.1636	-.6596	-.5418	-.0319	.0497	.0065	-.0449	.2430	.4180	.6077	-.2161	-.3333	-.3567
225.000		.3154	.1442	-.7055	-.3074	-.2301	.0094	.0305	-.0183	.2544	.4462				
270.000		.4264	.4944	-.4708	-.4095	-.2288	-.0328	.0023	.0033	.1554	.1935	.6692	.2191	.1617	-.3711
315.000		.5013	.4182	-.6107	-.3580	-.1251	-.0150	.0065	.0099	.1030	.2704				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0911	-.2813	.0090	-.0856	.1852	.1397
45.000	.0125	-.2827			.4127	.3278
90.000	-.0418	-.0812	.1540	.0844	.2324	.1514
135.000	.0426	-.0661			.1814	.0892
180.000	-.0476	-.0376	.2753	.0470	.1918	.0791
225.000	-.2173	-.3708			.2363	.0000
270.000	-.2766	-.2500	.0230	-.1786	-.1154	.1324
315.000	-.2478	-.2748			-.1238	-.1252

ALPHAL(6) =   4.210   BETAL (2) =   -3.973

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3144	.4939	.3496	-.6408	-.4095	-.1078	.0312	.0081	-.0114	.0362	.3089	.4676	-.2199	-.2700	-.3858
45.000		.4475	.3233	-.6441	-.4001	-.1619	.0650	.0276	-.0221	.0264	.3571				
90.000		.3687	.2811	-.6573	-.4414	-.2743	.0735	.0143	-.0774	.0871	.3509		-.4345	-.4424	
135.000		.2999	.2120	-.6558	-.5008	-.0223	.0702	.0055	-.0691	.1711	.3617				
180.000	1.3144	.2709	.1701	-.6548	-.5441	-.0464	.0419	-.0127	-.0675	.2127	.3922	.6144	-.2693	-.3670	-.3782
225.000		.2933	.1527	-.7065	-.3236	-.2692	.0085	.0042	-.0465	.2242	.4053				
270.000		.4145	.5041	-.5075	-.4300	-.2615	-.0465	-.0179	-.0229	.1455	.2780	.5851	.1477	.1174	-.3835
315.000		.4929	.4231	-.6155	-.3632	-.1268	-.0241	-.0137	-.0055	.0743	.2846				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0830	-.2429	.0556	-.0544	.1941	.1489
45.000	-.0037	-.2120			.3480	.2735
90.000	-.0665	-.0421	.1782	.0780	.1720	.0774
135.000	.0357	-.0536			.1971	.1077
180.000	-.0576	-.0324	.3109	.0452	.2075	.0933

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(6) =   4.210   BETAL (2) =   -3.973

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2060	-.3701			.2091	.0000
270.000	-.2657	-.2462	.0377	-.1633	-.1022	-.1305
315.000	-.2372	-.2711			-.0833	-.0881

ALPHAL(6) =   4.197   BETAL (3) =   .111

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3047	.4650	.3538	-.6320	-.3948	-.0965	-.0063	-.0005	-.0235	-.0108	.3115	.5619	-.2398	-.3125	-.4299
45.000		.3775	.2875	-.6491	-.4270	-.1702	.0200	.0037	-.0579	-.0177	.3347		-.4726	-.4910	
90.000		.2928	.2461	-.6544	-.4688	-.2221	.0391	-.0057	-.1141	.0760	.3128				
135.000		.2617	.2130	-.6470	-.5013	-.0275	.0466	-.0235	-.0890	.1453	.3229				
180.000	1.3047	.2574	.1933	-.6506	-.5251	-.0677	.0268	-.0521	-.0841	.1800	.3357	.5724	-.3010	-.4091	-.4160
225.000		.2768	.1815	-.6945	-.3287	-.3210	.0067	-.0355	-.0533	.1900	.3337				
270.000		.4027	.5319	-.4886	-.3739	-.3243	-.0673	-.0476	-.0389	.1254	.3184	.5280	.0788	.1426	-.4562
315.000		.4893	.4479	-.6058	-.3538	-.1523	-.0329	-.0261	-.0108	.0400	.2877				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0741	-.2329	.1413	-.0022	.2608	.2125
45.000	-.0280	-.1585			.2446	.1767
90.000	-.1030	-.0393	.1900	.0598	.1277	.0215
135.000	.0240	-.0842			.2641	.1722
180.000	-.0976	-.0282	.2719	.0345	.1488	.0439
225.000	-.2178	-.3478			.1573	.0000
270.000	-.2610	-.2419	.0225	-.1460	-.0873	-.1054
315.000	-.2292	-.2841			-.0110	.0102

ALPHAL(6) =   4.157   BETAL (4) =   4.224

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2839	.4249	.3398	-.6358	-.3851	-.1658	-.0725	-.0282	-.0444	.0200	.2916	.6362	-.2745	-.3587	-.4791
45.000		.3010	.2325	-.6653	-.4630	-.1739	-.0468	-.0304	-.1019	.0341	.2998		-.5084	-.5284	
90.000		.2389	.2016	-.6673	-.5137	-.1296	-.0029	-.0330	-.1283	.1062	.2644				
135.000		.2356	.1934	-.6570	-.5187	-.0414	.0053	-.0639	-.1029	.1518	.2680				
180.000	1.2839	.2264	.2000	-.6563	-.5261	-.1272	-.0273	-.0997	-.0685	.1695	.2363	.4868	-.2588	-.4291	-.4239
225.000		.2448	.2043	-.6943	-.3157	-.3194	-.0357	-.0837	-.0338	.1861	.2461				

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ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(6) =   4.157   BETAL (4) =   4.224

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6935	.7280	.7290	.7360	.7370
PHI															
270.000		.3592	.5650	-.4637	-.3694	-.3375	-.0741	-.0724	-.0315	.1363	.3031	.4984	.0146	.1566	-.4614
315.000		.4650	.4723	-.6040	-.3057	-.2088	-.0721	-.0314	-.0102	.0728	.2668				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0808	-.1944	.2338	.0781	.3642	.2904
45.000	-.0664	-.1381			.1974	.1074
90.000	-.1137	-.0378	.2098	.0226	.0963	-.0187
135.000	-.0362	-.0751			.1288	.0340
180.000	-.0442	-.1183	.2082	-.0668	.0866	-.0319
225.000	-.2386	-.3727			.0603	.0000
270.000	-.2882	-.2319	.1376	-.1068	-.0441	-.1343
315.000	-.2493	-.2571			.1236	.1117

ALPHAL(6) =   4.141   BETAL (5) =   6.306

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2693	.3946	.3292	-.6423	-.3587	-.2027	-.1053	-.0439	-.0277	-.0018	.2732	.6535	-.3152	-.4100	-.4970
45.000		.2559	.1984	-.6784	-.4789	-.2084	-.0735	-.0543	-.0823	.0230	.3024		-.5302	-.5437	
90.000		.2056	.1777	-.6745	-.5241	-.0885	-.0264	-.0521	-.1050	.0984	.2539				
135.000		.2086	.1786	-.6536	-.5174	-.0490	-.0267	-.0845	-.0641	.1531	.2575				
180.000	1.2693	.1961	.1944	-.6523	-.5060	-.1555	-.0735	-.1268	-.0447	.1691	.2159	.4770	-.2701	-.4318	-.4304
225.000		.2194	.2063	-.6678	-.2924	-.2941	-.0689	-.1115	-.0218	.1763	.2375				
270.000		.3397	.5766	-.4320	-.3637	-.3068	-.0823	-.0855	-.0310	.1308	.2968	.4701	.0193	.1481	-.4742
315.000		.4570	.4794	-.5940	-.2736	-.2125	-.0936	-.0349	.0096	.0551	.2564				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0689	-.1951	.2856	.1149	.4277	.3139
45.000	-.0706	-.1243			.1724	.0882
90.000	-.1180	-.0431	.2313	.0079	.0726	-.0386
135.000	-.0421	-.0914			.0953	-.0033
180.000	-.0220	-.1609	.2043	-.1053	.0274	-.0696
225.000	-.2475	-.3948			.0023	.0000
270.000	-.2931	-.2273	.1409	-.0770	-.0464	-.1551
315.000	-.2565	-.2505			.1740	.1439

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (RETS09)

ALPHAL(7) = 6.384 BETAL (1) = -3.906

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2954	.5500	.3912	-.6226	-.3601	-.0581	-.0122	.0423	.0234	.0523	.3455	.5455	-.2111	-.2971	-.3958
45.000		.4646	.3388	-.6367	-.3802	-.1477	.0140	.0374	-.0113	.0127	.3756				
90.000		.3293	.2464	-.6613	-.4544	-.3604	-.0187	-.0389	-.1333	.0520	.3566		-.4453	-.4505	
135.000		.2418	.1540	-.6705	-.5464	-.0925	.0247	.0007	-.0641	.1639	.3350				
180.000	1.2954	.2186	.1114	-.6745	-.4046	-.1360	-.0012	.0050	-.0357	.1923	.3451	.5710	-.3485	-.3863	-.3591
225.000		.2261	.0463	-.7427	-.3343	-.2591	-.0278	.0264	-.0017	.2215	.3569				
270.000		.3686	.4354	-.4762	-.3805	-.2333	-.0249	.0231	.0147	.1658	.2673	.4968	.0872	.0903	-.4374
315.000		.5183	.4685	-.5939	-.3113	-.0742	-.0249	.0364	.0271	.0899	.2904				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0560	-.2389	.1416	-.0047	.3132	.2510
45.000	.0350	-.2172			.3874	.3082
90.000	-.0449	-.0648	.3762	.0215	.2184	.1240
135.000	.0239	-.0831			.1030	-.0073
180.000	-.0211	-.0935	.2864	-.0276	.2145	.0933
225.000	-.2039	-.3861			.2355	.0000
270.000	-.2439	-.2323	.0654	-.1465	-.0700	-.1023
315.000	-.2222	-.2520			-.0425	-.0331

ALPHAL(7) = 6.375 BETAL (2) = -1.871

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2933	.5303	.3930	-.6221	-.3526	-.0449	-.0158	.0306	.0150	.0154	.3649	.5907	-.1780	-.2967	-.4220
45.000		.4206	.3095	-.6458	-.3878	-.1451	.0085	.0225	-.0343	-.0243	.3688				
90.000		.2911	.2234	-.6668	-.4726	-.3321	-.0064	-.0320	-.1479	.0518	.3413		-.4671	-.4746	
135.000		.2198	.1577	-.6670	-.5413	-.0724	.0248	-.0061	-.0820	.1439	.3210				
180.000	1.2933	.1974	.1281	-.6706	-.3938	-.1206	.0163	-.0067	-.0485	.1892	.3360	.5782	-.3750	-.4164	-.3766
225.000		.2102	.0545	-.7394	-.3472	-.2604	-.0142	.0082	-.0164	.2059	.3206				
270.000		.3565	.4455	-.5124	-.4139	-.2373	-.0220	.0147	-.0046	.1597	.2964	.4618	.0217	.0529	-.4506
315.000		.5208	.4853	-.5872	-.2859	-.0972	-.0252	.0332	.0220	.0662	.3042				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0579	-.2276	.1652	.0118	.3397	.2695
45.000	.0010	-.1881			.3257	.2575
90.000	-.0648	-.0624	.2916	.0118	.1688	.0632
135.000	.0244	-.0856			.1051	.0110
180.000	-.0209	-.0892	.3238	-.0145	.2208	.1113

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(7) = 6.375   BETAL (2) = -1.871

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.8102	.8661	.9120	.9130	.9344	.9565
225.000	-.2105	-.3794			.2078	.0000
270.000	-.2417	-.2263	.0622	-.1432	-.0662	-.1053
315.000	-.2179	-.2484			-.0057	.0097

ALPHAL(7) = 6.351   BETAL (3) = .181

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.2850	.5087	.3886	-.6179	-.3412	-.0686	-.0405	.0165	.0061	-.0085	.3635	.6303	-.1131	-.2818	-.4489
45.000		.3801	.2857	-.6468	-.4071	-.1278	-.0279	.0003	-.0561	-.0444	.3576		-.4623	-.4784	
90.000		.2502	.2074	-.6675	-.4884	-.3083	-.0185	-.0292	-.1461	.0645	.3279				
135.000		.2010	.1605	-.6613	-.5386	-.0589	.0256	-.0149	-.0771	.1292	.2922				
180.000	1.2850	.1882	.1359	-.6613	-.4630	-.1214	.0198	-.0227	-.0454	.1822	.2929	.4934	-.3012	-.4010	-.3724
225.000		.1892	.0641	-.7326	-.3458	-.2852	-.0107	-.0110	-.0163	.1951	.2788				
270.000		.3430	.4625	-.5024	-.4270	-.2629	-.0266	-.0055	-.0183	.1484	.3167	.4390	-.0343	.1488	-.4453
315.000		.5114	.4966	-.5811	-.2709	-.1141	-.0489	.0239	.0216	.0510	.3270				

PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0475	-.2271	.1828	.0592	.3298	.2740
45.000	-.0278	-.1592			.2811	.2218
90.000	-.0826	-.0522	.2496	.0086	.1338	.0167
135.000	.0221	-.0930			.1595	.0812
180.000	-.0499	-.0642	.3074	-.0060	.1598	.0622
225.000	-.2134	-.3656			.1494	.0000
270.000	-.2435	-.2295	.0456	-.1325	-.0627	-.0846
315.000	-.2211	-.2603			.0459	.0972

ALPHAL(7) = 6.312   BETAL (4) = 2.226

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.2787	.4834	.3828	-.6164	-.3270	-.1125	-.0852	-.0004	-.0053	-.0171	.3453	.6849	-.1690	-.2996	-.4784
45.000		.3295	.2562	-.6563	-.4255	-.1533	-.0722	-.0189	-.0803	-.0262	.3397		-.4676	-.4830	
90.000		.2175	.1898	-.6681	-.5040	-.2668	-.0276	-.0202	-.1320	.0978	.3065				
135.000		.1824	.1656	-.6530	-.5324	-.0494	.0212	-.0244	-.0797	.1252	.2618	.3981	-.1811	-.3298	-.3672
180.000	1.2787	.1680	.1489	-.6593	-.5194	-.1362	.0193	-.0428	-.0392	.1807	.2501				
225.000		.1621	.0893	-.7242	-.3542	-.3212	-.0030	-.0344	-.0138	.1920	.2576				

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER   (RETS09)

ALPHAL(7) =   6.312   BETAL (4) =   2.226

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3160	.4811	-.4903	-.4377	-.2661	-.0393	-.0205	-.0262	.1476	.3492	.4857	-.0712	.3393	-.4033
315.000		.5011	.5122	-.5755	-.2354	-.1421	-.0596	.0170	.0257	.0537	.3449				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0390	-.2303	.2442	.0615	.4103	.3397
45.000	-.0522	-.1482			.2442	.1652
90.000	-.0938	-.0643	.2481	-.0006	.1169	.0000
135.000	.0104	-.1134			.2137	.1206
180.000	-.0707	-.0680	.2280	-.0314	.0683	-.0390
225.000	-.2173	-.3432			.1231	.0000
270.000	-.2426	-.2273	.0544	-.1091	-.0521	-.0955
315.000	-.2276	-.2744			.1166	.1232

ALPHAL(7) =   6.288   BETAL (5) =   4.285

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2632	.4658	.3769	-.6243	-.3027	-.1538	-.1385	-.0295	-.0279	.0196	.3127	.6974	-.2747	-.3342	-.4928
45.000		.2884	.2185	-.6715	-.4569	-.2164	-.1041	-.0486	-.1213	.0075	.3215		-.4800	-.4892	
90.000		.1821	.1607	-.6800	-.5252	-.2197	-.0363	-.0386	-.1317	.1114	.2849				
135.000		.1732	.1581	-.6573	-.5379	-.0494	.0123	-.0451	-.0902	.1317	.2379				
180.000	1.2632	.1548	.1516	-.6630	-.5182	-.1504	.0036	-.0736	-.0445	.1738	.2196	.3956	-.1854	-.3394	-.3687
225.000		.1319	.0994	-.7286	-.3606	-.3381	-.0172	-.0668	-.0167	.1918	.2441				
270.000		.2890	.4921	-.4737	-.4559	-.2719	-.0490	-.0473	-.0376	.1425	.3438	.4941	-.0521	.3900	-.4376
315.000		.4957	.5190	-.5744	-.1772	-.1605	-.0778	.0033	.0173	.0774	.3197				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0435	-.2083	.2950	.1109	.4823	.3671
45.000	-.0678	-.1035			.1875	.1141
90.000	-.1063	-.0576	.2619	-.0209	.1102	-.0242
135.000	-.0224	-.0914			.1167	.0303
180.000	-.0449	-.1115	.1781	-.0719	.0459	-.0632
225.000	-.2237	-.3717			.0739	.0000
270.000	-.2642	-.2220	.1232	-.0680	-.0297	-.1264
315.000	-.2294	-.2850			.2115	.2072

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS10)   (17 OCT 75)

REFERENCE DATA					PARAMETRIC DATA	

```
SREF  =  2690.0000 SQ.FT.   XMRP  =    976.0000 IN. XT              MACH    =    1.100    RN/FT  =    2.250
LREF  =  1297.0000 INCHES   YMRP  =       .0000 IN. YT              ELV-IB  =    8.000    ELV-OB =    4.000
BREF  =  1297.0000 INCHES   ZMRP  =    400.0000 IN. ZT              RUDDER  =     .000    SPDBRK =     .000
SCALE =     .0300 SCALE
```

BETAL (1) =   .220   ALPHAL(1) =   -6.574

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2900	.1998	.1016	-.6911	-.5574	-.2057	-.1191	-.1126	-.1249	-.0146	.2238	.4434	-.3154	-.4211	-.5009
45.000		.2322	.1331	-.6878	-.5524	-.1483	-.1531	-.1690	-.2246	-.1190	.1732				
90.000		.2885	.1929	-.6796	-.4839	-.3640	-.3017	-.3244	-.2748	-.1297	.1393		-.5209	-.5025	
135.000		.4453	.3036	-.6345	-.3450	-.0100	-.2133	-.2505	-.2625	-.0381	.2499				
180.000	1.2900	.6014	.4473	-.5905	.1266	.0829	-.1152	-.1767	-.1819	.0754	.2743	.6381	-.2126	-.3978	-.6082
225.000		.5880	.5490	-.5521	.2542	.1430	-.0948	-.1573	-.1470	.1070	.3167				
270.000		.3484	.4283	-.5156	.0411	-.4291	-.5928	-.2256	-.0942	.0284	.2952	.7137	.2010	.2320	-.5075
315.000		.1965	-.0077	-.7688	-.5547	-.4153	-.1460	-.1081	-.0860	.0164	.2265				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1668	-.3011	.0474	-.1676	.0066	-.1091
45.000	-.1495	-.2150			-.0335	-.1114
90.000	-.2545	-.1109	.0635	-.1123	.1169	.0758
135.000	-.1272	-.1038			.3885	.2889
180.000	-.1773	-.1803	.4541	-.0289	.3384	.2116
225.000	-.2644	-.3008			-.0076	.0000
270.000	-.3225	-.2888	-.1178	-.2472	-.2051	-.1997
315.000	-.3158	-.3438			-.1327	-.1195

BETAL (1) =   .143   ALPHAL(2) =   -4.379

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3103	.2340	.1601	-.6701	-.5538	-.2135	-.0721	-.0696	-.0860	-.0065	.2559	.4124	-.2894	-.3706	-.4523
45.000		.2627	.1931	-.6649	-.5161	-.1004	-.0812	-.1145	-.1229	-.0264	.2314				
90.000		.3222	.2408	-.6570	-.4671	-.2188	-.1837	-.2218	-.1953	-.0713	.1956		-.5094	-.5050	
135.000		.4146	.3081	-.6296	-.3833	.0151	-.1258	-.1762	-.1959	.0137	.2868				
180.000	1.3103	.5127	.4052	-.6022	-.2639	.1192	-.0909	-.1520	-.1512	.0936	.3018	.6609	-.2400	-.4363	-.5728
225.000		.5303	.5019	-.5782	-.2659	.1659	-.1071	-.1497	-.1489	.1216	.3201				
270.000		.3934	.5068	-.4951	-.4134	-.3263	-.5886	-.2030	-.0867	.0404	.2901	.6998	.0965	.1756	-.5011
315.000		.2549	.1222	-.7183	-.4767	-.4283	-.0970	-.0786	-.0704	.0140	.2425				

ARC11-019 IA81 LVAP(ELHL SEALED)　SRM BOOSTER　　　　　　　(RETS10)

BETAL (1) = .143　　ALPHAL(2) = -4.379

SECTION (1)SRM BOOSTER　　　　　　DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1588	-.3365	.0414	-.1538	.0479	-.0531
45.000	-.0799	-.1980			.0136	-.0528
90.000	-.2217	-.0895	.0323	-.0370	.1376	.0926
135.000	-.1025	-.0808			.3294	.2602
180.000	-.1833	-.1362	.3929	.0106	.3251	.1998
225.000	-.3198	-.3096			.0194	.0000
270.000	-.3085	-.2722	-.0758	-.2321	-.1856	-.1741
315.000	-.2901	-.3326			-.1461	-.1307

BETAL (1) = .079　　ALPHAL(3) = -2.212

SECTION (1)SRM BOOSTER　　　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3175	.2839	.2083	-.6606	-.5142	-.2121	-.0456	-.0391	-.0683	.0122	.2636	.4359	-.3447	-.3034	-.4266
45.000		.3006	.2302	-.6574	-.4855	-.1207	-.0229	-.0641	-.0990	.0116	.2626			-.5037	-.5142
90.000		.3327	.2646	-.6472	-.4548	-.1147	-.0874	-.1379	-.1382	.0041	.2476				
135.000		.3948	.2986	-.6242	-.4118	.0357	-.0521	-.1178	-.1508	.0650	.3245				
180.000	1.3175	.4426	.3552	-.6129	-.3511	.1257	-.0547	-.1314	-.1420	.1217	.3356	.6726	-.2483	-.4480	-.5397
225.000		.4750	.4373	-.6009	-.3465	.1281	-.0942	-.1388	-.1462	.1426	.3405				
270.000		.4223	.5659	-.4712	-.5489	-.3541	-.4312	-.1861	-.0752	.0549	.2860	.7660	.1821	.2618	-.4975
315.000		.3137	.2250	-.6803	-.4915	-.3946	-.0883	-.0650	-.0611	.0262	.2333				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1690	-.2990	.0243	-.1848	.1077	.0474
45.000	-.0601	-.1669			.1057	.0432
90.000	-.1801	-.0667	.0341	.0441	.1576	.0905
135.000	-.0968	-.0710			.2685	.1918
180.000	-.1792	-.1192	.3629	.0337	.3006	.1846
225.000	-.2896	-.3148			.0198	.0000
270.000	-.2886	-.2726	-.0473	-.2163	-.1628	-.1590
315.000	-.2706	-.3017			-.1582	-.1161

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS10)

BETAL (1) =   .059   ALPHAL(4) =   -.065

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3164	.3299	.2557	-.6513	-.4737	-.1697	-.0292	-.0221	-.0528	.0101	.2693	.4393	-.3253	-.2803	-.3967
45.000		.3185	.2560	-.6497	-.4650	-.1727	.0054	-.0240	-.0751	.0271	.2974				
90.000		.3322	.2717	-.6425	-.4533	-.0841	-.0020	-.0593	-.1065	.0662	.2964		-.4698	-.4923	
135.000		.3492	.2753	-.6270	-.4430	.0272	.0109	-.0722	-.1216	.1148	.3420				
180.000	1.3164	.3724	.3001	-.6250	-.4257	.0756	-.0137	-.1081	-.1343	.1536	.3622	.6845	-.2350	-.4196	-.5015
225.000		.4094	.3610	-.6230	-.4443	-.0491	-.0557	-.1165	-.1310	.1683	.3632				
270.000		.4225	.5909	-.4617	-.4877	-.3630	-.2627	-.1553	-.0635	.0659	.2830	.7886	.2449	.2990	-.4652
315.000		.3728	.3077	-.6500	-.4613	-.3009	-.0735	-.0548	-.0547	.0284	.2550				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1381	-.2824	-.0656	-.1173	.1499	.1134
45.000	-.0337	-.2505			.1460	.0763
90.000	-.1332	-.0697	.0728	.0766	.1944	.1141
135.000	-.0654	-.0491			.2525	.1762
180.000	-.1639	-.0644	.2706	.0579	.2486	.1408
225.000	-.2931	-.2981			.0437	.0000
270.000	-.2904	-.2541	-.0614	-.1979	-.1573	-.1560
315.000	-.2598	-.3014			-.1469	-.1186

BETAL (1) =   .084   ALPHAL(5) =   2.085

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3132	.3885	.3031	-.6428	-.4275	-.1317	-.0291	-.0184	-.0411	.0018	.2781	.4742	-.2441	-.3047	-.3938
45.000		.3495	.2736	-.6477	-.4472	-.1718	.0150	-.0061	-.0664	.0210	.3019				
90.000		.3188	.2664	-.6474	-.4602	-.1374	.0373	-.0174	-.1001	.0863	.2938		-.4536	-.4628	
135.000		.3122	.2517	-.6349	-.4726	.0042	.0399	-.0427	-.0981	.1411	.3329				
180.000	1.3132	.3067	.2497	-.6395	-.4833	.0119	.0114	-.0803	-.1176	.1682	.3528	.6372	-.2693	-.4026	-.4582
225.000		.3453	.2772	-.6622	-.4041	-.1958	-.0012	-.0764	-.1039	.1747	.3577				
270.000		.4219	.5750	-.4686	-.4061	-.3300	-.0634	-.0651	-.0583	.0993	.2921	.6516	.1823	.2099	-.4232
315.000		.4330	.3852	-.6252	-.4319	-.2329	-.0664	-.0220	-.0279	.0445	.2582				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1073	-.2629	.0453	-.0582	.1644	.1345
45.000	-.0445	-.1699			.2044	.1394
90.000	-.1191	-.0651	.0832	.0793	.1788	.0825
135.000	-.0121	-.0668			.2506	.1718
180.000	-.1258	-.0437	.2320	.0541	.1749	.0659

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS10)

BETAL (1) =   .084   ALPHAL(5) =   2.085

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.5120	.9130	.9344	.9565
PHI						
225.000	-.2669	-.3118			.0880	.0000
270.000	-.2786	-.2542	-.0255	-.1802	-.1300	-.1277
315.000	-.2529	-.3065			-.0973	-.0661

BETAL (1) =   .100   ALPHAL(6) =   4.216

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3031	.4612	.3505	-.6347	-.3965	-.0972	-.0104	-.0045	-.0272	-.0058	.3132	.5537	-.2249	-.3140	-.4299
45.000		.3734	.2833	-.6537	-.4282	-.1714	.0165	.0023	-.0612	-.0114	.3351				
90.000		.2987	.2433	-.6580	-.4706	-.2325	.0363	-.0071	-.1149	.0827	.3103		-.4749	-.4885	
135.000		.2695	.2093	-.6473	-.5013	-.0274	.0434	-.0239	-.0908	.1552	.3214				
180.000	1.3031	.2512	.1945	-.6526	-.5247	-.0675	.0246	-.0537	-.0862	.1806	.3341	.5714	-.2983	-.4090	-.4250
225.000		.2758	.1817	-.6964	-.3320	-.3267	.0049	-.0375	-.0532	.1901	.3338				
270.000		.4042	.5316	-.4863	-.3774	-.3280	-.0728	-.0482	-.0427	.1238	.3191	.5455	.0851	.1294	-.4155
315.000		.4927	.4474	-.6072	-.3557	-.1573	-.0414	-.0282	-.0156	.0425	.2902				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0732	-.2325	.1412	-.0067	.2694	.2225
45.000	-.0251	-.1547			.2425	.1717
90.000	-.1023	-.0333	.1335	.0600	.1323	.0256
135.000	.0255	-.0783			.2719	.1814
180.000	-.0990	-.0303	.2639	.0386	.1462	.0356
225.000	-.2151	-.3433			.1546	.0000
270.000	-.2575	-.2390	.0263	-.1488	-.0856	-.1037
315.000	-.2308	-.2816			-.0061	.0131

BETAL (1) =   .170   ALPHAL(7) =   6.360

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2857	.5172	.3909	-.6218	-.3334	-.0704	-.0425	.0166	.0031	.0020	.3571	.6144	-.1346	-.2877	-.4470
45.000		.3818	.2868	-.6536	-.4019	-.1247	-.0315	-.0018	-.0589	-.0338	.3561				
90.000		.2497	.2063	-.6689	-.4811	-.3089	-.0205	-.0299	-.1471	.0737	.3288		-.4677	-.4824	
135.000		.2088	.1609	-.6532	-.5311	-.0538	.0276	-.0166	-.0768	.1337	.2903				
180.000	1.2857	.1980	.1347	-.6549	-.4555	-.1254	.0205	-.0270	-.0426	.1838	.2916	.4963	-.3244	-.4048	-.3766
225.000		.1938	.0696	-.7254	-.3448	-.2885	-.0066	-.0121	-.0143	.1947	.2753				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS10)

BETAL (1) =   .170   ALPHAL(7) =   6.360

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3517	.4590	-.4898	-.3841	-.2566	-.0257	-.0063	-.0146	.1471	.3154	.4452	-.0355	.1371	-.4398
315.000		.5162	.4953	-.5747	-.2656	-.1161	-.0486	.0215	.0203	.0559	.3274				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0574	-.2260	.1811	.0545	.3305	.2693
45.000	-.0289	-.1635			.2761	.2200
90.000	-.0836	-.0454	.1769	.0125	.1320	.0177
135.000	.0194	-.0888			.1692	.0872
180.000	-.0474	-.0604	.3066	-.0027	.1692	.0630
225.000	-.2129	-.3636			.1608	.0000
270.000	-.2423	-.2314	.0484	-.1308	-.0632	-.0853
315.000	-.2203	-.2618			.0468	.0793

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETSI1)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT
LREF	=	1297.0000 INCHES	YMRP = .0000 IN. YT
BREF	=	1297.0000 INCHES	ZMRP = 400.0000 IN. ZT
SCALE	=	.0300 SCALE	

PARAMETRIC DATA

MACH	=	1.250	RN/FT = 2.250
ELV-IB	=	8.000	ELV-OB = 4.000
RUDDER	=	.000	SPCBRK = .000

ALPHAL(1) =   -6.775   BETAL (1) =   -3.911

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3908	.1074	.1439	-.5116	-.4390	-.3417	-.1231	-.1307	-.1680	-.1266	.1914	.3476	-.1139	-.1374	-.4023
45.000		.1615	.1996	-.4959	-.3987	-.2992	-.2666	-.2000	-.2187	-.2304	.0838				
90.000		.2719	.3022	-.4646	-.3288	-.2787	-.3032	-.4073	-.3267	-.2964	.0213		-.3312	-.2679	
135.000		.4163	.4114	-.4157	-.2539	.1460	-.0117	-.1436	-.2046	-.1386	.2561				
180.000	1.3908	.5023	.4812	-.4018	-.2095	.2776	.0955	-.0541	-.1321	-.0699	.3652	.6944	.0280	-.1300	-.4870
225.000		.4936	.5626	-.3880	-.1840	.2502	.0943	-.0272	-.0622	-.0416	.4502				
270.000		.3384	.5255	-.3483	-.2233	-.3404	-.4174	-.1289	-.0758	-.0089	.3359	.8675	.3791	.3967	-.3022
315.000		.1655	.0929	-.5681	-.5895	-.4156	-.2931	-.1359	-.0853	-.0598	.2771				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1526	-.2646	-.0787	-.1967	-.0955	-.1616
45.000	-.0855	-.2469			-.0845	-.0533
90.000	-.2608	-.2085	.0381	-.0842	.1424	.1944
135.000	.0023	-.1987			.4922	.3845
180.000	.0240	-.1978	.3063	.1882	.4423	.3087
225.000	-.2599	-.2759			.0106	.0000
270.000	-.3030	-.2293	-.0701	-.1952	-.1542	-.1186
315.000	-.2781	-.2366			-.1484	-.1531

ALPHAL(1) =   -6.726   BETAL (2) =   -1.850

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3797	.0641	.1264	-.5038	-.4406	-.3396	-.0992	-.1175	-.1441	-.1116	.2222	.4136	-.1229	-.1992	-.4042
45.000		.1215	.1783	-.4945	-.4034	-.2955	-.2460	-.1639	-.1999	-.2728	.1124				
90.000		.2181	.2626	-.4710	-.3525	-.2877	-.3282	-.3740	-.3102	-.2565	.0490		-.3324	-.2735	
135.000		.3617	.3778	-.4289	-.2704	.0804	-.0796	-.1957	-.2362	-.1707	.2019				
180.000	1.3797	.4766	.4803	-.3997	-.2018	.2220	.0379	-.0406	-.1448	-.0710	.2924	.6548	-.0605	-.1882	-.5083
225.000		.4837	.5757	-.3820	-.1810	.2239	.0529	-.0305	-.1165	.0838	.3797				
270.000		.3151	.5297	-.3405	-.2068	-.3408	-.4289	-.1373	-.0922	.0185	.3308	.7790	.2326	.2580	-.3838
315.000		.1283	.0749	-.5746	-.6117	-.4515	-.2329	-.1233	-.0867	-.0531	.2629				

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(1) = -6.726   BETAL (2) = -1.850

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1057	-.2697	.0514	-.1606	-.0097	-.1210
45.000	-.1085	-.2051			-.0596	-.0932
90.000	-.2275	-.1629	.0150	-.1053	.1049	.1565
135.000	-.0239	-.1903			.4405	.3576
180.000	.0010	-.2171	.3350	.0835	.4157	.3062
225.000	-.2269	-.2875			.0737	.0000
270.000	-.2773	-.2216	-.0060	-.1851	-.1501	-.1511
315.000	-.2215	-.2396			-.1112	-.1181

ALPHAL(1) = -6.672   BETAL (3) = .245

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4760	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3640	.0460	.1165	-.5198	-.4470	-.3276	-.1007	-.1074	-.1239	-.0917	.2337	.4121	-.1503	-.2482	-.4210
45.000		.0940	.1634	-.5010	-.4139	-.2810	-.1837	-.1291	-.1901	-.2492	.1245		-.3300	-.2613	
90.000		.1606	.2261	-.4849	-.3774	-.2845	-.3295	-.3188	-.2795	-.1997	.0522	.1472			
135.000		.3036	.3305	-.4442	-.2917	.0122	-.1391	-.2407	-.2661	-.0905	.1765	.5663	-.0709	-.2135	-.5398
180.000	1.3640	.4500	.4726	-.4054	-.2010	.1570	-.0125	-.0802	-.1938	.1094	.2998				
225.000		.4831	.5807	-.3809	-.1655	.2188	.0198	-.0089	-.1526	.1328	.3038	.6651	.1895	.2419	-.5318
270.000		.2860	.5269	-.3380	-.1884	-.2823	-.4424	-.1617	-.0831	.0384	.2367				
315.000		.1316	.0584	-.5831	-.6133	-.4442	-.2090	-.1251	-.0840	-.0382	.2367				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0773	-.3118	.1926	-.2687	.2015	.0277
45.000	-.1014	-.2023			-.0074	-.0835
90.000	-.2005	-.1199	.0530	-.0863	.0515	.0842
135.000	-.0837	-.1734			.3710	.3362
180.000	-.1001	-.2360	.3423	-.0307	.3765	.2891
225.000	-.2354	-.2762			.0234	.0000
270.000	-.2738	-.2268	-.0646	-.2036	-.1608	-.1448
315.000	-.2240	-.2737			-.0804	-.0522

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(1) =   -6.639   BETAL (4) =   2.332

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3501	.0369	.1085	-.5263	-.4509	-.3167	-.0930	-.0954	-.1045	-.0795	.2266	.5722	-.2555	-.2982	-.4554
45.000		.0517	.1505	-.5019	-.4176	-.2597	-.1271	-.1115	-.1725	-.1808	.1318				
90.000		.1166	.1900	-.4933	-.3987	-.3063	-.3316	-.2750	-.2564	-.1266	.0998		-.3495	-.2901	
135.000		.2604	.2922	-.4572	-.3171	-.0674	-.2114	-.2701	-.2923	-.0767	.1293				
180.000	1.3501	.4373	.4613	-.4103	-.1993	.1089	-.0637	-.1200	-.2402	.0631	.0730	.5617	-.1446	-.2679	-.5651
225.000		.4926	.5813	-.3810	-.1407	.1838	-.0216	-.0291	-.1672	.1087	.2432				
270.000		.2820	.5301	-.3366	-.1712	-.3397	-.4579	-.2051	-.0872	.0311	.2712	.6151	.2249	.2917	-.5002
315.000		.1085	.0511	-.5905	-.6252	-.4384	-.1973	-.1316	-.0878	-.0366	.2119				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0522	-.2665	.1935	-.2183	.4257	.2556
45.000	-.0881	-.1789			.0432	-.0408
90.000	-.1839	-.0618	.0994	-.0115	.0447	.0209
135.000	-.1302	-.1062			.3252	.3133
180.000	-.1358	-.2249	.3600	-.1056	.2687	.2107
225.000	-.2872	-.2340			-.0860	.0000
270.000	-.2772	-.2366	-.1768	-.2134	-.1755	-.1749
315.000	-.2192	-.2854			-.0060	.0389

ALPHAL(1) =   -6.606   BETAL (5) =   4.393

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3312	.0547	.0857	-.5277	-.4576	-.2977	-.1000	-.0960	-.0913	-.0605	.2356	.5706	-.3158	-.3421	-.4183
45.000		.0247	.1163	-.5135	-.4188	-.2356	-.0954	-.1140	-.1654	-.1239	.1876				
90.000		.0776	.1460	-.5095	-.4191	-.3200	-.3041	-.2479	-.2421	-.0719	.1900		-.3421	-.2595	
135.000		.2162	.2372	-.4743	-.3460	-.1424	-.2891	-.3189	-.3234	-.0848	.1897				
180.000	1.3312	.4260	.4367	-.4179	-.2001	.0580	-.1190	-.1574	-.2616	.0158	.0029	.6281	-.1718	-.3704	-.4952
225.000		.5025	.5660	-.3848	-.1216	.1588	-.0672	-.0794	-.1800	.0771	.1984				
270.000		.2713	.5332	-.3280	-.1754	-.3849	-.4705	-.2388	-.1005	.0183	.2445	.5159	.2127	.2402	-.3169
315.000		.0609	.0442	-.5947	-.6197	-.4350	-.2031	-.1403	-.0885	-.0405	.1877				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0732	-.3090	.1319	-.1030	.4416	.3476
45.000	-.0676	-.2384			.0756	.0145
90.000	-.1476	-.0943	.1212	-.0088	.0261	-.0359
135.000	-.1470	-.1646			.2385	.1807
180.000	-.1069	-.2403	.2459	-.0935	.1056	.0291

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(1) = -6.606   BETAL (5) = 4.393

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3124	-.2607			-.0586	.0000
270.000	-.2989	-.2600	-.1103	-.1635	-.1267	-.1724
315.000	-.2384	-.3199			.0704	.0913

ALPHAL(2) = -4.579   BETAL (1) = -6.041

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4088	.2058	.2188	-.4893	-.4105	-.3090	-.1321	-.0948	-.1376	-.0999	.2010	.2399	-.1632	-.0503	-.3010
45.000		.2500	.2766	-.4742	-.3594	-.2623	-.1863	-.1640	-.1970	-.1954	.2019				
90.000		.3501	.3742	-.4467	-.2879	-.2292	-.1686	-.2686	-.2432	-.2576	.0972		-.2859	-.2553	
135.000		.4335	.4277	-.4139	-.2601	-.0427	.0824	-.0470	-.0996	-.1132	.3645				
180.000	1.4088	.4669	.4342	-.4212	-.2765	.2139	.1479	-.0076	-.0679	-.0125	.4686	.7331	.0529	-.0976	-.4432
225.000		.4759	.4984	-.4120	-.2548	.2110	.1250	-.0079	-.0457	.0544	.5373				
270.000		.4181	.5778	-.3320	-.3058	-.3424	-.4067	-.1147	-.0451	.0328	.3010	.9535	.4642	.4058	-.2883
315.000		.3047	.2046	-.5249	-.5006	-.3856	-.1645	-.1168	-.0648	-.0427	.2803				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0964	-.2694	-.1194	-.1940	-.0781	-.1105
45.000	-.0707	-.2991			.0574	.1115
90.000	-.2970	-.2420	.0179	-.0059	.2219	.2259
135.000	.0977	-.2152			.4611	.4179
180.000	.0794	-.1638	.2562	.2375	.4388	.3103
225.000	-.2354	-.3631			.1057	.0000
270.000	-.2969	-.2559	-.0068	-.1964	-.1493	-.1269
315.000	-.2565	-.2452			-.1255	-.1472

ALPHAL(2) = -4.532   BETAL (2) = -3.988

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4014	.1303	.2028	-.4868	-.4083	-.2981	-.1040	-.0726	-.1244	-.0931	.2186	.2798	-.1124	-.0884	-.3274
45.000		.1969	.2561	-.4723	-.3624	-.2623	-.1564	-.1150	-.1652	-.1758	.2036				
90.000		.2835	.3400	-.4473	-.3065	-.2447	-.1820	-.2542	-.2264	-.2347	.1213		-.2817	-.2549	
135.000		.3674	.4007	-.4136	-.2736	-.0345	.0389	-.0933	-.1392	-.1134	.3366				
180.000	1.4014	.4078	.4319	-.4114	-.2607	.1951	.1086	-.0294	-.0873	-.0584	.4214	.7199	.0248	-.1254	-.4464
225.000		.4380	.5087	-.3992	-.2431	.2221	.0906	-.0224	-.0655	.0362	.4868				

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(2) =   -4.532   BETAL (2) =   -3.988

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3770	.5882	-.3153	-.2984	-.3012	-.4110	-.0894	-.0480	.0270	.3427	.8994	.4294	.4066	-.2759
315.000		.1679	.1938	-.5230	-.5107	-.3940	-.1570	-.1192	-.0640	-.0418	.2752				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1288	-.2506	-.0936	-.1933	-.0722	-.1061
45.000	-.0424	-.2701			.0373	.0678
90.000	-.2533	-.2352	-.0185	-.0188	.1876	.2062
135.000	.0559	-.2166			.4413	.4008
180.000	.0528	-.1892	.2507	.2068	.4233	.3001
225.000	-.2468	-.2925			.0269	.0000
270.000	-.2918	-.2345	-.0472	-.1811	-.1362	-.1068
315.000	-.2506	-.2462			-.1213	-.1550

ALPHAL(2) =   -4.453   BETAL (3) =   .137

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3758	.0818	.1732	-.4982	-.4174	-.2811	-.0752	-.0663	-.0890	-.0681	.2288	.3846	-.2055	-.1981	-.3481
45.000		.1096	.2063	-.4825	-.3791	-.2531	-.1048	-.0920	-.1296	-.1201	.1878				
90.000		.1707	.2637	-.4677	-.3526	-.2625	-.2156	-.2093	-.2139	-.1472	.1537		-.3093	-.2761	
135.000		.2627	.3316	-.4363	-.3048	-.0219	-.0788	-.1812	-.2106	-.0303	.2592				
180.000	1.3758	.3621	.4236	-.4174	-.2473	.1653	.0000	-.0639	-.1629	.1248	.2426	.6512	-.1036	-.2634	-.4816
225.000		.4309	.5320	-.3948	-.2383	.1798	.0094	-.0099	-.1573	.1389	.3211				
270.000		.3571	.5986	-.2989	-.3002	-.2779	-.4456	-.1568	-.0943	.0395	.2685	.7365	.2249	.2901	-.4071
315.000		.1090	.1695	-.5391	-.5308	-.4199	-.1362	-.0923	-.0734	-.0306	.1974				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1101	-.3179	.1856	-.1703	.0896	-.0091
45.000	-.0483	-.1986			.0233	-.0274
90.000	-.1667	-.1300	.0408	-.0225	.0988	.1000
135.000	-.0308	-.1678			.3143	.3198
180.000	-.0673	-.1810	.2345	.0942	.3320	.2607
225.000	-.2087	-.2780			.0380	.0000
270.000	-.2685	-.2277	-.0439	-.1868	-.1475	-.1289
315.000	-.2307	-.2799			-.0818	-.0520

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(2) = -4.393   BETAL (4) =   4.293

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3424	.0558	.1447	-.5056	-.4339	-.2978	-.0689	-.0728	-.0599	-.0507	.2258	.3897	-.2334	-.2325	-.3824
45.000		.0503	.1688	-.4911	-.3958	-.2377	-.0408	-.0736	-.1065	-.0621	.2510		-.3647	-.3735	
90.000		.0910	.1897	-.4864	-.3895	-.2418	-.1826	-.1589	-.1912	-.0440	.2264				
135.000		.1880	.2443	-.4641	-.3515	-.0745	-.1948	-.2001	-.2695	-.0347	.2335				
180.000	1.3424	.3531	.3933	-.4311	-.2492	.0642	-.1122	-.1178	-.2209	.0422	.0924	.6451	-.1501	-.3506	-.4574
225.000		.4528	.5346	-.3993	-.2295	.1711	-.0615	-.0654	-.1781	.0954	.2224				
270.000		.3191	.6102	-.2854	-.3179	-.2940	-.4785	-.1891	-.0981	.0318	.2449	.5868	.2338	.3029	-.3256
315.000		.1972	.1626	-.5494	-.5373	-.4242	-.1512	-.0821	-.0720	-.0279	.1779				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0728	-.2584	.0801	-.0546	.3651	.3418
45.000	.0433	-.2710			.1665	.0721
90.000	-.1318	-.0824	.0776	.0202	.0645	-.0106
135.000	-.1010	-.1218			.2105	.2094
180.000	-.0761	-.2084	.2884	-.0696	.1465	.0591
225.000	-.2713	-.2851			-.0176	.0000
270.000	-.2751	-.2410	-.0021	-.1289	-.0998	-.1389
315.000	-.2430	-.3002			.0236	.0735

ALPHAL(2) = -4.397   BETAL (5) =   6.362

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3276	.0310	.1281	-.5073	-.4356	-.2793	-.0778	-.0723	-.0591	-.0015	.2168	.3476	-.2115	-.1862	-.4018
45.000		.0205	.1398	-.4934	-.3963	-.2130	-.0321	-.0790	-.0979	-.0043	.2506		-.4088	-.4419	
90.000		.0532	.1515	-.4925	-.3985	-.2369	-.1510	-.1451	-.2003	.0320	.2226				
135.000		.1580	.1999	-.4737	-.3734	-.1291	-.2382	-.2195	-.2832	.0418	.1931				
180.000	1.3276	.3473	.3731	-.4309	-.2492	.0192	-.1434	-.1588	-.2435	.0760	.0914	.5275	-.2149	-.4271	-.4466
225.000		.4583	.5241	-.4020	-.2388	.1596	-.0961	-.0933	-.2094	.0914	.2094				
270.000		.3054	.6147	-.2665	-.3299	-.3057	-.4785	-.1698	-.1079	.0545	.2549	.5031	.1222	.0947	-.3290
315.000		.1454	.1568	-.5460	-.5263	-.3998	-.1580	-.0936	-.0695	.0080	.1880				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0796	-.2605	.1541	.0298	.3279	.3111
45.000	-.0099	-.2659			.3639	.2787
90.000	-.1204	-.1138	.1309	-.0038	.0882	.0026
135.000	-.1220	-.1131			.0882	.0210
180.000	-.1522	-.1821	.1645	-.1010	.0497	-.0116

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(2) =   -4.397   BETAL (5) =   6.362

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2986	-.2778			-.0425	.0000
270.000	-.2889	-.2286	-.0490	-.1676	-.1357	-.1798
315.000	-.2539	-.2979			.0558	.0798

ALPHAL(3) =   -2.330   BETAL (1) =   -6.083

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4132	.2365	.2715	-.4713	-.3790	-.2802	-.1241	-.0673	-.0887	-.0721	.2114	.3735	-.1738	.2422	-.2687
45.000		.2857	.3218	-.4580	-.3230	-.2150	-.1147	-.0643	-.1177	-.1422	.2588				
90.000		.3527	.3935	-.4351	-.2745	-.1807	-.0927	-.1342	-.1461	-.1687	.2114		-.2422	-.2194	
135.000		.3789	.4037	-.4174	-.2777	-.1310	.1144	-.0032	-.0567	-.0942	.4198				
180.000	1.4132	.3787	.3833	-.4281	-.3148	-.1065	.1541	.0105	-.0459	.0156	.5003	.7257	.0410	-.0841	-.3824
225.000		.4105	.4395	-.4287	-.3085	.0257	.1333	.0054	-.0336	.1347	.5594				
270.000		.4417	.6169	-.3104	-.4410	-.3696	-.3962	-.1046	-.0222	.0618	.2834	.9623	.5057	.4055	-.2754
315.000		.2866	.2931	-.4860	-.4196	-.3465	-.1913	-.0606	-.0361	-.0281	.2761				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0591	-.2763	-.1614	-.2361	-.0142	.0273
45.000	-.0240	-.3406			.1418	.1485
90.000	-.1935	-.2250	.0310	.0432	.2233	.2321
135.000	.1263	-.2291			.3509	.3558
180.000	.0847	-.1517	.2236	.2117	.3936	.3016
225.000	-.2118	-.3604			.1711	.0000
270.000	-.2776	-.2521	-.0368	-.1913	-.1317	-.1256
315.000	-.2354	-.2858			-.1272	-.1407

ALPHAL(3) =   -2.276   BETAL (2) =   -1.980

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3950	.1472	.2430	-.4785	-.3901	-.2629	-.0828	-.0413	-.0807	-.0680	.2689	.3340	-.1304	.0255	-.2943
45.000		.1843	.2711	-.4631	-.3517	-.2235	-.0895	-.0425	-.1057	-.1104	.2533				
90.000		.2300	.3199	-.4492	-.3224	-.2179	-.1228	-.1151	-.1517	-.1356	.2102		-.2615	-.2423	
135.000		.2522	.3477	-.4317	-.3101	-.1067	.0264	-.0807	-.1319	-.1107	.3639				
180.000	1.3950	.2479	.3736	-.4295	-.3073	-.0157	.0685	-.0532	-.0910	.0829	.4183	.7190	-.0361	-.1752	-.4192
225.000		.2822	.4539	-.4270	-.2975	.1138	.0508	-.0001	-.1092	.1730	.4515				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(3) = -2.276   BETAL (2) = -1.980

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2214	.6334	-.2957	-.4191	-.3873	-.4220	-.0929	-.0563	.0587	.3246	.8628	.3980	.4005	-.2745
315.000		.1781	.2828	-.4950	-.4449	-.3735	-.1792	-.0822	-.0532	-.0200	.2577				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1149	-.2846	-.0847	-.1236	.0363	.0477
45.000	-.0070	-.3051			.1455	.1550
90.000	-.1415	-.2034	.0048	.0321	.1733	.1703
135.000	.0593	-.2242			.3091	.3168
180.000	.0183	-.1902	.1959	.1498	.3485	.2579
225.000	-.2450	-.2991			.0119	.0000
270.000	-.2711	-.2440	-.0490	-.1?80	-.1505	-.1414
315.000	-.2440	-.2777			-.1511	-.1272

ALPHAL(3) = -2.234   BETAL (3) = 2.154

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3664	.1026	.2121	-.4829	-.3970	-.2599	-.0619	-.0458	-.0498	-.0413	.2284	.3625	-.2395	-.1866	-.3352
45.000		.1066	.2193	-.4699	-.3639	-.2250	-.0214	-.0388	-.0770	-.0693	.2552				
90.000		.1295	.2507	-.4647	-.3520	-.2259	-.1007	-.1023	-.1395	-.0434	.2103		-.3412	-.3426	
135.000		.1699	.2837	-.4448	-.3322	-.0871	-.0735	-.1193	-.1932	.0288	.2693				
180.000	1.3664	.2544	.3599	-.4322	-.3029	.0973	-.0296	-.0767	-.1797	.0940	.2374	.5514	-.2135	-.3139	-.4505
225.000		.3234	.4747	-.4180	-.2835	.1316	-.0293	-.0026	-.1372	.1334	.2893				
270.000		.3456	.6533	-.2743	-.4314	-.3917	-.4506	-.1678	-.0733	.0442	.2454	.6624	.1825	.3166	-.4010
315.000		.1375	.2671	-.5017	-.4613	-.3774	-.1272	-.0809	-.0582	-.0186	.1937				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1056	-.2708	.0378	-.0805	.2712	.2525
45.000	.0681	-.2497			.1734	.1001
90.000	-.1031	-.0575	.0421	.0552	.1120	.0461
135.000	-.0530	-.0732			.1981	.1762
180.000	-.1066	-.1199	.2455	.0378	.2806	.2129
225.000	-.2280	-.2969			.0989	.0000
270.000	-.2566	-.2310	.0139	-.1480	-.1008	-.1006
315.000	-.2339	-.2729			-.0639	-.0217

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ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(3) = -2.212   BETAL (4) =   6.290

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	X/LS .0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.3321	.0721	.1767	-.4912	-.4113	-.2484	-.0865	-.0557	-.0489	-.0015	.2319	.3557	-.1599	-.1993	-.3501
45.000		.0425	.1684	-.4918	-.3890	-.2219	-.0209	-.0544	-.0739	-.0071	.2719		-.4121	-.3898	
90.000		.0579	.1752	-.4874	-.3846	-.2087	-.0590	-.0950	-.1557	.0271	.2651	.2436			
135.000		.1212	.1943	-.4753	-.3780	-.0774	-.1567	-.1322	-.2172	.0646	.1618	.5808	-.1540	-.3528	-.4153
180.000	1.3321	.2570	.3195	-.4476	-.3121	.0325	-.1350	-.1011	-.2233	.1227	.2423				
225.000		.3961	.4756	-.4233	-.2978	.1081	-.1164	-.0715	-.1932	.1335	.2783				
270.000		.3341	.6687	-.2428	-.4575	-.3495	-.4644	-.1929	-.0957	.0751	.2165	.5959	.2393	.3227	-.3171
315.000		.2381	.2547	-.5106	-.4493	-.3490	-.1344	-.0809	-.0526	.0102	.2165				

PHI	X/LS .8102	.8661	.9120	.9130	.9344	.9565
.000	-.1032	-.2106	.0959	.0310	.2452	.2038
45.000	.0335	-.2520			.3691	.3006
90.000	-.0764	-.1013	.1112	.0176	.1158	.0402
135.000	-.0944	-.0884			.1167	.0531
180.000	-.1019	-.1575	.1770	-.0671	.0746	.0018
225.000	-.2652	-.3141			.0037	.0000
270.000	-.2784	-.2554	.0262	-.1161	-.0938	-.1322
315.000	-.2420	-.3113			.0277	.0780

ALPHAL(4) =   -.100   BETAL (1) = -6.115

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	X/LS .0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.4136	.3250	.3256	-.4607	-.3509	-.2415	-.0920	-.0281	-.0648	-.0485	.2837	.3364	-.1124	.1233	-.2717
45.000		.3429	.3642	-.4468	-.2998	-.1680	-.0907	.0154	-.0605	-.0910	.3419		-.2118	-.1992	
90.000		.3605	.3992	-.4338	-.2711	-.1652	-.0030	-.0021	-.0501	-.0796	.3037				
135.000		.3373	.3661	-.4284	-.3001	-.1819	.1028	.0413	-.0309	-.0808	.4550	.7305	.0337	-.0963	-.3378
180.000	1.4136	.3126	.3271	-.4442	-.3531	-.1992	.1328	.0355	-.0291	.0695	.5283				
225.000		.3432	.3677	-.4587	-.3786	-.2241	.1040	.0313	-.0149	.2057	.5866	1.0116	.5368	.4260	-.2754
270.000		.4744	.6315	-.3039	-.5183	-.3436	-.3873	-.1424	-.0648	.0846	.1980				
315.000		.3401	.3735	-.4596	-.3600	-.2898	-.1354	-.0938	-.0287	-.0016	.2981				

PHI	X/LS .8102	.8661	.9120	.9130	.9344	.9565
.000	-.1025	-.3354	-.1027	-.1472	.0879	.1404
45.000	.0455	-.3221			.2807	.2773
90.000	-.0833	-.1946	.0678	.0632	.2380	.2212
135.000	.1487	-.2119			.3212	.2892
180.000	.0712	-.1313	.2044	.1730	.3124	.2516

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(4) =   -.100   BETAL (1) = -6.115

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2063	-.3467			.1935	.0000
270.000	-.2579	-.2428	-.0090	-.1786	-.1325	-.1139
315.000	-.2264	-.2677			-.1469	-.1143

ALPHAL(4) =   -.073   BETAL (2) =   -4.067

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4064	.2506	.3203	-.4549	-.3494	-.2445	-.0765	-.0180	-.0577	-.0425	.2988	.3632	-.0821	.1106	-.2597
45.000		.2660	.3432	-.4448	-.3086	-.1798	-.0638	.0142	-.0608	-.0769	.3379				
90.000		.2885	.3669	-.4343	-.2903	-.1842	-.0153	-.0035	-.0641	-.0800	.2961		-.2030	-.1925	
135.000		.2685	.3447	-.4251	-.3114	-.1773	.0734	.0133	-.0671	-.0849	.4316				
180.000	1.4064	.2395	.3222	-.4367	-.3472	-.1716	.1066	-.0352	-.0554	.0011	.5062	.7305	.0181	-.1068	-.3495
225.000		.2703	.3709	-.4528	-.3791	-.2150	.0795	.0154	-.0443	.1575	.5603				
270.000		.2793	.6462	-.2859	-.4812	-.3624	-.3669	-.1263	-.0508	.0761	.2497	.9729	.5168	.4502	-.2665
315.000		.2784	.3749	-.4534	-.3659	-.3158	-.1235	-.1092	-.0385	-.0060	.2846				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1102	-.3274	-.0709	-.1377	.1043	.1456
45.000	.0452	-.3025			.2723	.2823
90.000	-.0766	-.1930	.0494	.0534	.2103	.1862
135.000	.1267	-.2106			.2958	.2674
180.000	.0587	-.1436	.1962	.1578	.3141	.2496
225.000	-.2078	-.3287			.1156	.0000
270.000	-.2538	-.2320	-.0056	-.1680	-.1322	-.1121
315.000	-.2286	-.2604			-.1405	-.1065

ALPHAL(4) =   -.074   BETAL (3) =   .055

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3839	.1527	.2840	-.4619	-.3634	-.2311	-.0609	-.0334	-.0402	-.0393	.2617	.4021	-.1840	-.0996	-.2924
45.000		.1691	.2828	-.4560	-.3417	-.2028	-.0157	-.0131	-.0549	-.0679	.2878				
90.000		.1798	.3001	-.4486	-.3310	-.2119	-.0444	-.0350	-.0930	-.0864	.2663		-.2739	-.2739	
135.000		.1718	.3029	-.4377	-.3317	-.1537	.0010	-.0430	-.1309	.0283	.3521				
180.000	1.3839	.1503	.3266	-.4371	-.3376	-.0675	.0431	-.0213	-.1193	.1405	.3782	.7358	-.0996	-.2767	-.4071
225.000		.2023	.3941	-.4455	-.3598	-.1597	.0083	-.0070	-.1153	.1568	.3920				

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(4) =   -.074   BETAL (3) =   .055

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2045	.6629	-.2694	-.4709	-.3771	-.3429	-.1735	-.0741	.0572	.2371	.7963	.2130	.3097	-.4040
315.000		.1996	.3590	-.4632	-.3903	-.3313	-.1039	-.0973	-.0615	-.0154	.2306				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0993	-.2855	.0050	-.0924	.1703	.1660
45.000	.0122	-.2304			.1761	.1486
90.000	-.0644	-.1667	.0652	.0579	.2008	.1690
135.000	.0563	-.1762			.2545	.2357
180.000	-.0369	-.1346	.1843	.1018	.2350	.1702
225.000	-.2209	-.2732			.0490	.0000
270.000	-.2502	-.2140	-.0194	-.1531	-.1189	-.1028
315.000	-.2250	-.2631			-.1064	-.0622

ALPHAL(4) =   -.055   BETAL (4) =   4.187

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3519	.1338	.2473	-.4693	-.3725	-.2073	-.0789	-.0557	-.0410	-.0478	.2511	.3778	-.1054	-.1791	-.2969
45.000		.0903	.2161	-.4770	-.3681	-.2180	-.0133	-.0340	-.0584	-.0641	.2619				
90.000		.0906	.2220	-.4665	-.3615	-.2088	-.0252	-.0483	-.1054	-.0080	.2742		-.3820	-.4167	
135.000		.0872	.2380	-.4575	-.3640	-.0965	-.0658	-.0733	-.1660	.0554	.3077				
180.000	1.3519	.1332	.2963	-.4503	-.3461	.0239	-.0764	-.0556	-.1693	.0972	.2687	.6152	-.2480	-.3692	-.4010
225.000		.2041	.4049	-.4459	-.3454	-.0685	-.0612	.0243	-.1379	.1502	.2785				
270.000		.3260	.6804	-.2545	-.4665	-.3535	-.3594	-.1609	-.0859	.0511	.2486	.6609	.1919	.3232	-.4075
315.000		.2023	.3636	-.4660	-.3872	-.2953	-.1061	-.0748	-.0505	-.0086	.2398				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0699	-.1822	.0824	.0299	.1792	.1377
45.000	.0264	-.2039			.2815	.2116
90.000	-.0335	-.1183	.1090	.0390	.1917	.1016
135.000	-.0261	-.0749			.1493	.1025
180.000	-.0361	-.1300	.2696	-.0336	.1881	.1176
225.000	-.2090	-.3432			.0811	.0000
270.000	-.2436	-.2169	.1087	-.1021	-.0502	-.0865
315.000	-.2228	-.2827			.0332	.0732

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(4) =   -.065   BETAL (5) =   6.257

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3325	.1214	.2243	-.4801	-.3779	-.1915	-.0894	-.0610	-.0497	-.0055	.2535	.4203	-.0769	-.1986	-.3441
45.000		.0525	.1776	-.4919	-.3838	-.2220	-.0271	-.0534	-.0696	-.0150	.2664				
90.000		.0454	.1819	-.4817	-.3779	-.1975	-.0222	-.0641	-.1209	.0499	.2720			-.3971	-.4242
135.000		.0615	.1952	-.4695	-.3832	-.0788	-.0968	-.0827	-.1724	.0937	.2735				
180.000	1.3325	.1350	.2743	-.4581	-.3439	-.0023	-.1328	-.0476	-.2001	.1312	.2073	.6200	-.1490	-.3506	-.4045
225.000		.3108	.3988	-.4477	-.3423	-.0505	-.0964	-.0164	-.1826	.1537	.2674				
270.000		.4174	.6747	-.2623	-.4644	-.3461	-.3363	-.1453	-.0966	.0755	.2920	.7045	.2785	.4043	-.3943
315.000		.2190	.3497	-.4682	-.3835	-.2779	-.1203	-.0686	-.0446	.0213	.2514				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0648	-.1757	.1690	.0596	.2765	.2327
45.000	.0067	-.1590			.2107	.1327
90.000	-.0667	-.0789	.1592	.0374	.1504	.0706
135.000	-.0537	-.0710			.1224	.0663
180.000	-.0525	-.1373	.2040	-.0601	.0761	.0042
225.000	-.2266	-.3438			.0383	.0000
270.000	-.2564	-.2285	.0879	-.0982	-.0614	-.1093
315.000	-.2272	-.2866			.1026	.1541

ALPHAL(5) =   1.003   BETAL (1) = -6.101

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4102	.3612	.3507	-.4548	-.3361	-.2340	-.0726	-.0103	-.0476	-.0398	.3130	.3613	-.0223	.0003	-.2650
45.000		.3624	.3782	-.4430	-.2917	-.1502	-.0927	.0364	-.0350	-.0687	.3666				
90.000		.3553	.3955	-.4347	-.2747	-.1682	.0056	.0434	-.0305	-.0601	.3401			-.2008	-.1878
135.000		.3164	.3470	-.4341	-.3137	-.2016	.0746	.0514	-.0250	-.0752	.4611				
180.000	1.4102	.2886	.3022	-.4498	-.3663	-.1600	.0929	.0285	-.0189	.1098	.5347	.7317	.0244	-.0995	-.3191
225.000		.3176	.3312	-.4719	-.4082	-.2687	.0535	.0465	-.0025	.2194	.5928				
270.000		.4956	.6290	-.3049	-.4807	-.3024	-.2463	-.2304	-.0786	.0812	.1317	1.0149	.5374	.4327	-.3271
315.000		.3874	.4091	-.4470	-.3307	-.2548	-.0933	-.0805	-.0342	.0101	.3079				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1001	-.3313	-.0575	-.1164	.1318	.1641
45.000	.0651	-.3008			.3031	.3305
90.000	-.0522	-.1853	.0967	.0603	.2457	.2273
135.000	.1599	-.2118			.2728	.2673
180.000	.0793	-.1284	.1928	.1544	.2747	.2126

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(5) = 1.003   BETAL (1) = -6.101

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2052	-.3361			.2011	.0000
270.000	-.2492	-.2369	-.0022	-.1717	-.1262	-.1017
315.000	-.2303	-.2719			-.1384	-.0964

ALPHAL(5) = 1.024   BETAL (2) = -2.001

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3943	.2086	.3241	-.4543	-.3410	-.2404	-.0742	-.0187	-.0346	-.0371	.2820	.4074	-.1239	-.0378	-.2728
45.000		.2265	.3201	-.4509	-.3202	-.1784	-.0395	.0160	-.0407	-.0614	.3177		-.2184	-.2012	
90.000		.2296	.3241	-.4462	-.3143	-.2001	-.0163	.0178	-.0590	-.0771	.3041				
135.000		.2011	.3006	-.4347	-.3313	-.1891	.0279	.0087	-.0752	-.0924	.4019				
180.000	1.3943	.1588	.2873	-.4448	-.3574	-.1033	.0480	-.0489	-.0921	.1354	.4763	.7227	-.0245	-.1481	-.3541
225.000		.1990	.3321	-.4662	-.4030	-.2734	.0203	.0096	-.0810	.2058	.5015				
270.000		.2252	.6444	-.2822	-.4438	-.3313	-.2001	-.1342	-.0792	.0693	.2113	.9107	.4541	.4113	-.2654
315.000		.2468	.4044	-.4432	-.3423	-.2866	-.0346	-.0608	-.0525	-.0091	.2472				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0919	-.3192	-.0236	-.0989	.1325	.1539
45.000	.0172	-.2483			.2433	.2506
90.000	-.0622	-.1794	.0843	.0587	.2134	.1926
135.000	.1140	-.2068			.2637	.2579
180.000	.0253	-.1501	.1697	.1322	.2619	.2007
225.000	-.2430	-.2938			.0550	.0000
270.000	-.2603	-.2317	-.0172	-.1648	-.1310	-.1100
315.000	-.2424	-.2868			-.1271	-.0839

ALPHAL(5) = 1.015   BETAL (3) = 2.136

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3675	.1628	.2929	-.4607	-.3482	-.2060	-.0788	-.0481	-.0298	-.0304	.2423	.4059	-.1310	-.1286	-.2885
45.000		.1455	.2574	-.4675	-.3457	-.1998	-.0127	-.0188	-.0417	-.0667	.2635		-.3221	-.3382	
90.000		.1400	.2586	-.4623	-.3403	-.2164	.0019	-.0179	-.0779	-.0510	.2641				
135.000		.1193	.2620	-.4452	-.3457	-.1455	-.0289	-.0274	-.1293	.0645	.3114				
180.000	1.3675	.1048	.2858	-.4448	-.3567	-.0331	-.0106	-.0118	-.1201	.1173	.3074	.6256	-.1486	-.3083	-.3838
225.000		.1637	.3576	-.4571	-.3811	-.1844	-.0334	.0058	-.1137	.1584	.3353				

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(5) =   1.015   BETAL (3) =   2.136

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.1939	.6658	-.2669	-.4587	-.3269	-.1543	-.1263	-.0719	.0629	.2202	.6940	.1744	.2388	-.3865
315.000		.2210	.4038	-.4442	-.3435	-.2712	-.0870	-.0624	-.0372	.0009	.2240				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0712	-.2115	.0399	.0009	.1741	.1604
45.000	-.0195	-.1618			.2021	.1470
90.000	-.0512	-.1210	.1012	.0695	.2448	.1893
135.000	-.0006	-.0914			.1857	.1377
180.000	-.1282	-.0682	.1738	.0543	.1707	.1002
225.000	-.2281	-.2706			.1308	.0000
270.000	-.2483	-.2209	.0442	-.1216	-.0692	-.0737
315.000	-.2212	-.2665			-.0530	-.0030

ALPHAL(5) =   .993   BETAL (4) =   6.269

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3352	.1548	.2617	-.4679	-.3577	-.1635	-.1025	-.0583	-.0429	.0056	.2745	.5279	-.1335	-.2192	-.3728
45.000		.0643	.1890	-.4849	-.3822	-.2182	-.0319	-.0523	-.0630	-.0067	.2858		-.3751	-.4003	
90.000		.0455	.1853	-.4824	-.3753	-.1930	-.0054	-.0496	-.1008	.0559	.2637				
135.000		.0464	.1946	-.4661	-.3797	-.0880	-.0586	-.0481	-.1476	.1182	.2840				
180.000	1.3352	.0948	.2512	-.4595	-.3775	-.0349	-.1068	-.0274	-.1734	.1480	.2293	.6128	-.1726	-.3601	-.3919
225.000		.2361	.3566	-.4626	-.3836	-.1229	-.0994	-.0194	-.1629	.1590	.2723				
270.000		.4190	.6874	-.2366	-.4109	-.3172	-.1445	-.0846	-.0905	.0860	.2855	.6328	.2455	.3743	-.3484
315.000		.2558	.4074	-.4460	-.3440	-.2328	-.1080	-.0651	-.0377	.0322	.2440				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0391	-.1883	.2176	.0906	.3778	.3339
45.000	.0128	-.1430			.1853	.1263
90.000	-.0489	-.0819	.1675	.0351	.1669	.0998
135.000	-.0489	-.0747			.1144	.0506
180.000	-.0366	-.1307	.2103	-.0577	.0711	-.0014
225.000	-.2223	-.3392			.0400	.0000
270.000	-.2560	-.2256	.1013	-.0909	-.0513	-.1159
315.000	-.2239	-.2766			.1441	.1786

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(6) =   3.196   BETAL (1) =   -6.054

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4077	.4200	.4061	-.4382	-.2976	-.2224	-.0457	.0176	-.0092	-.0056	.3057	.4145	-.1479	-.1917	-.2669
45.000		.4083	.4104	-.4304	-.2677	-.1095	-.0737	.0584	.0085	-.0253	.3880				
90.000		.3475	.3876	-.4341	-.2756	-.1992	-.0284	.0648	-.0113	-.0449	.3782		-.1812	-.1584	
135.000		.2677	.3062	-.4441	-.3397	-.2209	.0332	.0444	-.0179	-.0388	.4485				
180.000	1.4077	.2079	.2474	-.4604	-.3888	-.1400	.0246	.0265	-.0056	.1715	.5286	.6970	.0242	-.0819	-.2855
225.000		.2360	.2483	-.4994	-.4051	-.2231	-.0357	.0289	.0214	.2268	.5943				
270.000		.4714	.6012	-.3174	-.4630	-.2265	-.0503	-.0655	-.0695	.0552	-.0406	.9620	.5021	.3580	-.3542
315.000		.4440	.4745	-.4183	-.2523	-.1916	-.0317	-.0104	-.0173	.0226	.2482				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0529	-.3157	.0363	-.0997	.2389	.2416
45.000	.1125	-.2401			.3060	.3240
90.000	-.0143	-.1432	.1470	.0687	.2443	.2068
135.000	.1871	-.2137			.2318	.1937
180.000	.0822	-.1388	.2062	.1297	.2315	.1504
225.000	-.1960	-.3383			.2977	.0000
270.000	-.2445	-.2020	.0531	-.1366	-.0732	-.0558
315.000	-.1809	-.2662			-.0665	-.0442

ALPHAL(6) =   3.186   BETAL (2) = -4.004

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3982	.3622	.3949	-.4349	-.3004	-.2398	-.0508	.0012	-.0137	-.0114	.2817	.3938	-.0890	-.1488	-.2540
45.000		.3324	.3826	-.4334	-.2850	-.1327	-.0685	.0389	-.0064	-.0314	.3566				
90.000		.2884	.3515	-.4401	-.2995	-.2200	-.0210	.0423	-.0353	-.0651	.3431		-.2059	-.1858	
135.000		.2225	.2838	-.4449	-.3469	-.2231	.0268	.0319	-.0344	-.0455	.4094				
180.000	1.3982	.1683	.2428	-.4543	-.3865	-.1468	.0225	.0064	-.0396	.1445	.4907	.6939	-.0282	-.1090	-.2753
225.000		.1985	.2502	-.4980	-.3855	-.2467	-.0326	.0246	-.0206	.1902	.5186				
270.000		.3678	.6042	-.3042	-.4345	-.2552	-.0602	-.0435	-.0498	.0776	.0920	.8096	.3963	.2630	-.2629
315.000		.3887	.4727	-.4182	-.2596	-.2093	-.0587	-.0240	-.0188	.0248	.2417				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0476	-.2695	.0073	-.1003	.2297	.2355
45.000	.0761	-.2332			.2465	.2398
90.000	-.0331	-.1394	.1242	.0677	.2074	.1599
135.000	.1713	-.2181			.2364	.1962
180.000	.0665	-.1413	.1931	.1:	.2230	.1461

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(6) =   3.186   BETAL (2) =   -4.004

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2008	-.3150			.2196	.0000
270.000	-.2278	-.2099	.0357	-.1378	-.0848	-.0761
315.000	-.1916	-.2442			-.0784	-.0598

ALPHAL(6) =   3.158   BETAL (3) =   .099

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3757	.2536	.3621	-.4464	-.3089	-.2420	-.0601	-.0382	-.0229	-.0235	.2840	.4678	-.0808	-.1261	-.3204
45.000		.2169	.3113	-.4565	-.3252	-.1751	-.0528	-.0114	-.0272	-.0588	.3169				
90.000		.1781	.2804	-.4578	-.3394	-.2420	.0014	.0072	-.0616	-.0726	.2865		-.2797	-.2904	
135.000		.1353	.2539	-.4486	-.3544	-.2005	-.0025	.0194	-.0775	.0511	.3436				
180.000	1.3757	.0909	.2434	-.4574	-.3805	-.1647	-.0074	.0340	-.0729	.1386	.3755	.6173	-.1622	-.2275	-.3410
225.000		.1306	.2589	-.4973	-.3657	-.3136	-.0330	.0084	-.0760	.1640	.3706				
270.000		.2062	.6272	-.2838	-.3868	-.3205	-.0902	-.0561	-.0585	.0873	.2515	.5945	.2156	.1721	-.3475
315.000		.2884	.4725	-.4213	-.2797	-.2479	-.0647	-.0607	-.0262	.0210	.2566				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0382	-.2192	.0934	.0293	.2389	.2455
45.000	.0290	-.1704			.2230	.1952
90.000	-.0521	-.1151	.1269	.0610	.1763	.1010
135.000	.1136	-.1689			.2437	.1946
180.000	-.0327	-.1009	.2062	.0766	.1794	.1147
225.000	-.1877	-.3022			.1568	.0000
270.000	-.2390	-.2066	.0891	-.1122	-.0503	-.0701
315.000	-.1997	-.2349			.0073	.0289

ALPHAL(6) =   3.123   BETAL (4) =   4.226

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3426	.2207	.3257	-.4552	-.3226	-.1449	-.1077	-.0759	-.0351	-.0429	.2791	.5475	-.0832	-.1553	-.3500
45.000		.1243	.2329	-.4784	-.3707	-.2179	-.0759	-.0562	-.0565	-.0808	.2714				
90.000		.0789	.2036	-.4781	-.3758	-.2534	-.0035	-.0303	-.0806	-.0202	.2428		-.3534	-.3913	
135.000		.0464	.2064	-.4636	-.3758	-.1376	-.0249	.0006	-.1131	.0835	.3034				
180.000	1.3426	.0313	.2181	-.4706	-.3997	-.1005	-.0548	-.0098	-.1273	.1171	.2751	.5167	-.2385	-.3362	-.3315
225.000		.0696	.2647	-.5027	-.3610	-.2953	-.0737	-.0248	-.1220	.1592	.2770				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(6) =   3.123   BETAL (4) =   4.226

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2818	.6562	-.2643	-.3805	-.3368	-.0979	-.0773	-.0725	.0915	.2696	.5173	.1152	.1707	-.3642
315.000		.3186	.4805	-.4243	-.2732	-.2014	-.0786	-.0736	-.0297	.0214	.2566				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0117	-.1783	.2235	.1028	.3755	.3551
45.000	.0859	-.1509			.2713	.2152
90.000	-.0330	-.0616	.1668	.0498	.1659	.0833
135.000	.0114	-.0798			.1299	.0624
180.000	-.0279	-.0890	.2283	-.0227	.1470	.0759
225.000	-.1827	-.3309			.1004	.0000
270.000	-.2280	-.1890	.1366	-.0623	-.0050	-.0801
315.000	-.1997	-.2271			.1458	.1711

ALPHAL(6) =   3.111   BETAL (5) =   6.299

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3286	.2442	.3073	-.4565	-.3208	-.1170	-.1201	-.0784	-.0427	.0167	.2767	.6337	-.1594	-.2204	-.3889
45.000		.0952	.1879	-.4879	-.3858	-.2376	-.0780	-.0665	-.0650	-.0140	.2647		-.3786	-.4129	
90.000		.0425	.1746	-.4833	-.3849	-.2389	-.0080	-.0461	-.0863	.0253	.2512				
135.000		.0219	.1737	-.4735	-.3827	-.1048	-.0223	-.0162	-.1223	.1297	.2905				
180.000	1.3286	.0290	.1993	-.4716	-.4012	-.1060	-.0811	-.0269	-.1450	.1561	.2484	.5520	-.2140	-.3488	-.3571
225.000		.1448	.2605	-.5005	-.3117	-.2703	-.0954	-.0312	-.1383	.1729	.2693				
270.000		.3889	.6654	-.2445	-.3695	-.3196	-.1045	-.0756	-.0873	.1042	.2960	.5397	.1433	.2323	-.3540
315.000		.3784	.4843	-.4185	-.2677	-.1724	-.0826	-.0665	-.0327	.0324	.2656				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0139	-.1746	.2939	.1261	.4423	.3862
45.000	.0724	-.1457			.2832	.1894
90.000	-.0558	-.0495	.2150	.0520	.1352	.0575
135.000	-.0190	-.0671			.1066	.0389
180.000	-.0027	-.1146	.2153	-.0580	.0749	-.0013
225.000	-.1934	-.3376			.0539	.0000
270.000	-.2365	-.1937	.1306	-.0577	-.0207	-.1080
315.000	-.2022	-.2396			.1687	.1840

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(7) =   5.340   BETAL (1) = -3.935

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3885	.4433	.4424	-.4221	-.2549	-.2173	-.0322	.0080	.0135	.0180	.2967	.4328	-.1302	-.1687	-.2769
45.000		.3809	.4037	-.4301	-.2687	-.1065	-.0809	.0208	.0074	-.0184	.3801				
90.000		.2831	.3308	-.4446	-.3101	-.2772	-.1058	-.0103	-.0574	-.0874	.3541		-.2337	-.2409	
135.000		.1854	.2404	-.4579	-.3766	-.2138	-.0310	.0244	-.0292	.0392	.3639				
180.000	1.3885	.1177	.1851	-.4729	-.4064	-.1489	-.0294	.0208	-.0230	.1355	.4117	.6346	-.1486	-.1345	-.2363
225.000		.1546	.1645	-.5332	-.3098	-.2273	-.0638	.0192	-.0043	.1765	.4120				
270.000		.3972	.5663	-.3224	-.3355	-.2038	-.0364	.0031	-.0016	.1079	.0965	.5255	.1872	.0895	-.3404
315.000		.4458	.5306	-.3948	-.2035	-.2154	-.0103	.0004	.0036	.0499	.2177				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0109	-.2165	.1052	-.0088	.2825	.2902
45.000	.0917	-.2297			.4142	.3886
90.000	.0214	-.0975	.2045	.0528	.1597	.0991
135.000	.1487	-.1773			.1682	.1006
180.000	.0847	-.1553	.1990	.1003	.2295	.1454
225.000	-.1666	-.3432			.2371	.0000
270.000	-.1961	-.1902	.1332	-.1002	-.0232	-.0421
315.000	-.1707	-.2069			-.0155	.0082

ALPHAL(7) =   5.331   BETAL (2) = -1.897

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3747	.3999	.4245	-.4309	-.2685	-.2245	-.0438	-.0197	-.0033	.0011	.3025	.4785	-.1270	-.1680	-.3071
45.000		.3201	.3597	-.4463	-.2955	-.1469	-.0992	-.0020	-.0100	-.0428	.3633				
90.000		.2215	.2870	-.4602	-.3379	-.2888	-.0803	-.0142	-.0660	-.0889	.3344		-.2749	-.2960	
135.000		.1460	.2131	-.4642	-.3797	-.2044	-.0331	.0220	-.0499	.0309	.3473				
180.000	1.3747	.0853	.1802	-.4708	-.4051	-.1664	-.0389	.0281	-.0456	.1261	.3820	.6100	-.2025	-.1812	-.2748
225.000		.1164	.1506	-.5358	-.3284	-.2511	-.0767	.0132	-.0342	.1616	.3608				
270.000		.3577	.5642	-.3188	-.3704	-.2273	-.0517	-.0160	-.0259	.1116	.1641	.4763	.1384	.0538	-.3684
315.000		.4215	.5301	-.3995	-.2088	-.2228	-.0301	-.0194	-.0140	.0459	.2167				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0112	-.2088	.1355	.0317	.3107	.3149
45.000	.0747	-.2009			.3377	.3228
90.000	-.0004	-.0886	.2158	.0467	.1315	.0622
135.000	.1579	-.1871			.1999	.1451
180.000	.0428	-.1266	.2222	.1048	.2343	.1390

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS11)

ALPHAL(7) =   5.331   BETAL (2) =   -1.897

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1790	-.3395			.2437	.0000
270.000	-.1953	-.1905	.1498	-.0924	-.0132	-.0389
315.000	-.1721	-.2112			.0269	.0592

ALPHAL(7) =   5.309   BETAL (3) =   .161

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3626	.3407	.4091	-.4364	-.2699	-.1961	-.0562	-.0428	-.0080	-.0100	.3170	.5111	-.0821	-.1474	-.3496
45.000		.2491	.3200	-.4567	-.3141	-.1791	-.1137	-.0348	-.0233	-.0601	.3480		-.3042	-.3231	
90.000		.1631	.2510	-.4691	-.3559	-.2987	-.0458	-.0339	-.0696	-.0616	.3170				
135.000		.1037	.2004	-.4611	-.3782	-.1939	-.0135	.0194	-.0671	.0515	.3127	.5203	-.2179	-.2338	-.2942
180.000	1.3626	.0531	.1884	-.4752	-.4039	-.1863	-.0336	.0291	-.0604	.1252	.3385				
225.000		.0839	.1567	-.5339	-.3348	-.2799	-.0638	-.0016	-.0530	.1560	.3099	.4273	.0934	.0725	-.3998
270.000		.2137	.5703	-.3091	-.3998	-.2651	-.0577	-.0150	-.0370	.1136	.2180				
315.000		.3481	.5312	-.3964	-.2171	-.2136	-.0342	-.0385	-.0152	.0351	.2311				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0236	-.1920	.1895	.0704	.3457	.3298
45.000	.0627	-.1728			.3368	.3027
90.000	-.0251	-.0697	.2160	.0470	.1119	.0318
135.000	.1395	-.1647			.2528	.1914
180.000	-.0051	-.0941	.2412	.0537	.1603	.1003
225.000	-.1553	-.3195			.2193	.0000
270.000	-.2045	-.1787	.1161	-.0675	.0081	-.0337
315.000	-.1791	-.1963			.0854	.1337

ALPHAL(7) =   5.273   BETAL (4) =   2.221

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3464	.3471	.3909	-.4431	-.2829	-.1394	-.0722	-.0689	-.0199	-.0274	.3207	.5713	.0005	-.1196	-.3697
45.000		.2108	.2682	-.4736	-.3423	-.2051	-.1432	-.0635	-.0424	-.0818	.3182		-.3223	-.3524	
90.000		.1186	.2032	-.4813	-.3734	-.3041	-.0323	-.0372	-.0686	-.0314	.2829				
135.000		.0721	.1819	-.4689	-.3794	-.1853	-.0104	.0134	-.0759	.0562	.2641	.4186	-.1976	-.2710	-.2867
180.000	1.3464	.0357	.1754	-.4796	-.4095	-.1768	-.0347	.0076	-.0815	.1248	.2662				
225.000		.0807	.1652	-.5371	-.3201	-.2975	-.0579	-.0205	-.0689	.1559	.2739				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS11)

ALPHAL(7) =   5.273   BETAL (4) =   2.221

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3400	.5869	-.2983	-.3962	-.2865	-.0579	-.0354	-.0455	.1190	.2626	.4171	.0640	.0893	-.3718
315.000		.4221	.5301	-.4001	-.2129	-.1673	-.0360	-.0577	-.0120	.0310	.2658				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0020	-.1642	.2180	.1100	.4174	.3804
45.000	.0381	-.1157			.2830	.2238
90.000	-.0402	-.0264	.2135	.0584	.1225	.0355
135.000	.0730	-.1032			.2412	.1655
180.000	-.0462	-.0380	.2254	.0108	.0880	.0050
225.000	-.1563	-.3242			.2073	.0000
270.000	-.2082	-.1780	.1430	-.0475	.0383	-.0150
315.000	-.1755	-.1984			.1362	.1830

ALPHAL(7) =   5.249   BETAL (5) =   4.291

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3329	.3317	.3766	-.4399	-.2804	-.0843	-.1035	-.0859	-.0299	-.0350	.3075	.6689	-.0377	-.1813	-.3969
45.000		.1643	.2283	-.4787	-.3673	-.2371	-.1710	-.0822	-.0597	-.0984	.2747				
90.000		.0690	.1705	-.4873	-.3915	-.3039	-.0303	-.0467	-.0752	-.0111	.2496		-.3350	-.3744	
135.000		.0302	.1726	-.4706	-.3865	-.1746	-.0071	.0160	-.0825	.0750	.2628				
180.000	1.3329	.0062	.1708	-.4841	-.4172	-.1731	-.0436	-.0023	-.0950	.1289	.2502	.4304	-.2340	-.3140	-.2962
225.000		.0600	.1643	-.5356	-.3338	-.3203	-.0646	-.0239	-.0717	.1605	.2557				
270.000		.3619	.6021	-.2788	-.4072	-.3036	-.0637	-.0476	-.0540	.1121	.2858	.4172	.0513	.1477	-.3488
315.000		.4311	.5385	-.3975	-.2001	-.1385	-.0439	-.0658	-.0056	.0278	.2925				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0482	-.1641	.2639	.1511	.4230	.3895
45.000	.1135	-.1648			.2785	.2119
90.000	-.0442	-.0433	.2505	.0364	.0939	.0203
135.000	.0418	-.0828			.1447	.0711
180.000	-.0012	-.0687	.2052	-.0250	.1009	.0257
225.000	-.1566	-.3245			.0899	.0000
270.000	-.2093	-.1622	.1216	-.0250	.0127	-.0734
315.000	-.1610	-.2200			.2311	.2107

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA			
SREF =	2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT		MACH =	1.400	RN/FT =	2.250
LREF =	1297.0000 INCHES	YMRP =	.0000 IN. YT		ELV-IB =	8.000	ELV-OB =	.000
BREF =	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT		RUDDER =	.000	SPDBRK =	.000
SCALE =	.0300 SCALE							

ALPHAL(1) = -6.839   BETAL (1) = -3.931

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4680	.0957	.1872	-.3542	-.3079	-.2680	-.2029	-.1541	-.1300	-.1339	.1224	.2040	-.0274	-.0970	-.3962
45.000		.1718	.2097	-.3533	-.2784	-.2174	-.1981	-.2573	-.2266	-.1908	.0007				
90.000		.2513	.3000	.0000	-.2340	-.2294	-.1913	-.3340	.0000	-.2808	-.0161		-.1238	-.0994	
135.000		.3560	.4333	-.2686	-.1717	-.0739	.0769	-.0498	-.1333	-.1642	.1068				
180.000	1.4680	.3927	.5173	-.2505	-.1398	-.0114	.1916	.0067	-.0602	-.0805	.2975	.6101	.1895	.0566	-.4257
225.000		.2859	.6181	-.2315	-.1116	-.1076	.2006	.0139	-.0125	-.0431	.4324				
270.000		.0960	.6244	-.1818	-.0899	.0000	-.2656	-.0792	-.0772	-.0515	.0000	.9204	.5016	.5035	-.5107
315.000		.0355	.1565	-.4201	-.4762	-.3625	-.2730	-.1113	-.0551	-.0593	.2672				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0645	-.2784	-.0238	-.2021	-.0670	-.1313
45.000	-.0735	-.2425			-.0551	-.0455
90.000	-.2431	-.2459	.1683	-.0637	.0739	.1367
135.000	.1119	-.3266			.3252	.4122
180.000	.1303	-.3116	.0801	.2263	.4743	.3716
225.000	-.2063	-.2965			.1730	.0000
270.000	-.2698	-.2133	-.0872	-.1774	-.1393	-.1129
315.000	-.2050	-.2152			-.0303	-.0295

ALPHAL(1) =   -6.794   BETAL (2) = -1.861

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4504	.0691	.1637	-.3724	-.3219	-.2786	-.1883	-.1221	-.1271	-.1063	.1472	.2772	-.0134	-.0792	-.3692
45.000		.1379	.1721	-.3637	-.2915	-.2235	-.1996	-.2243	-.1862	-.2640	.0155				
90.000		.2015	.2466	.0000	-.2627	-.2566	-.2231	-.3506	.0000	-.2562	-.0120		-.1478	-.1168	
135.000		.3082	.3877	-.2878	-.1983	-.0935	.0191	-.1099	-.1799	-.1616	.0583				
180.000	1.4504	.3577	.5022	-.2566	-.1474	.0160	.1451	-.0338	-.1123	-.1275	.2310	.6195	.0775	-.0519	-.4504
225.000		.2694	.6166	-.2342	-.1152	.0264	.1653	-.0130	-.0515	-.0614	.3693				
270.000		.0793	.6280	-.1824	-.0812	.0000	-.2825	-.0701	-.0835	-.0632	.0000	.8352	.4026	.4372	-.4739
315.000		.0087	.1445	-.4322	-.5031	-.3702	-.2965	-.1096	-.0554	-.0557	.2640				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(1) =   -6.794   BETAL (2) =   -1.861

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0480	-.2694	.0300	-.1918	-.0167	-.0976
45.000	-.0675	-.2342			-.0571	-.0741
90.000	-.2137	-.2201	.0722	-.0625	.0395	.1207
135.000	.0695	-.3117			.3268	.4029
180.000	.0861	-.3323	.0999	.1861	.4377	.3543
225.000	-.2112	-.2722			.0889	.0000
270.000	-.2553	-.2029	-.0898	-.1710	-.1484	-.1173
315.000	-.1891	-.2281			-.0532	-.0705

ALPHAL(1) =   -6.757   BETAL (3) =   .212

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4319	.0377	.1430	-.3928	-.3283	-.2840	-.1554	-.0788	-.1097	-.0913	.1827	.3144	-.0054	-.0739	-.3521
45.000		.1022	.1472	-.3712	-.2956	-.2264	-.1913	-.1577	-.1334	-.2680	.0634		-.1877	-.1021	
90.000		.1529	.2030	.0000	-.2843	-.2729	-.2429	-.3378	.0000	-.2330	.0290				
135.000		.2579	.3407	-.2993	-.2200	-.0942	-.0512	-.1622	-.2267	-.2028	.0038				
180.000	1.4319	.3350	.4901	-.2586	-.1496	.0701	.0960	-.0625	-.1600	-.1660	.1357	.5764	.0307	-.1234	-.4423
225.000		.2582	.6176	-.2307	-.1089	.1368	.1253	-.0088	-.0919	-.0796	.3164				
270.000		.0620	.6278	-.1729	-.0737	.0000	-.2966	-.0690	-.0832	-.0661	.0000	.7323	.3023	.3958	-.4179
315.000		-.0172	.1367	-.4348	-.5141	-.3719	-.3111	-.1049	-.0542	-.0623	.2422				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0384	-.2809	.0668	-.2319	.1859	.0386
45.000	-.0534	-.2500			-.0427	-.0959
90.000	-.1501	-.1835	.0446	-.0686	-.0056	.0446
135.000	.0030	-.2466			.2471	.3241
180.000	-.0114	-.3391	.1046	.0832	.3531	.3002
225.000	-.1951	-.2892			.0140	.0000
270.000	-.2527	-.2288	-.0831	-.2001	-.1642	-.1462
315.000	-.2013	-.2873			-.0626	-.0409

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(1) = -6.700   BETAL (4) =   2.318

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4073	.0105	.1305	-.3946	-.3466	-.2811	-.1072	-.0695	-.0888	-.0834	.2064	.4680	-.0758	-.1170	-.3794
45.000		.0678	.1212	-.3810	-.3056	-.2293	-.1767	-.0766	-.1105	-.2087	.1053				
90.000		.1068	.1605	.0000	-.3108	-.2823	-.2529	-.2974	.0000	-.1991	.0715		-.2420	-.1948	
135.000		.2049	.2952	-.3175	-.2507	-.1144	-.1286	-.2093	-.2850	-.2096	.0386				
180.000	1.4073	.3075	.4761	-.2663	-.1610	.0985	.0361	-.0716	-.2141	-.1178	.0694	.4511	-.0484	-.1170	-.4662
225.000		.2517	.6123	-.2339	-.0994	.1733	.0779	-.0087	-.1151	-.0469	.2539				
270.000		.0621	.6336	-.1729	-.0776	.0000	-.3149	-.0826	-.1058	-.0323	.0000	.5897	.2621	.3231	-.4251
315.000		-.0369	.1284	-.4422	-.5252	-.3760	-.3223	-.0891	-.0658	-.0520	.2215				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0076	-.2847	.0324	-.2056	.3144	.2716
45.000	-.0262	-.2654			-.0157	-.0603
90.000	-.1419	-.1426	.0360	-.0487	-.0321	-.0371
135.000	-.0632	-.2109			.2241	.3116
180.000	-.0540	-.3699	.1807	-.0523	.3177	.2727
225.000	-.2057	-.2780			-.0318	.0000
270.000	-.2553	-.2290	-.1037	-.1925	-.1640	-.1408
315.000	-.2087	-.2997			.0057	.0743

ALPHAL(1) = -6.673   BETAL (5) =   4.383

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3820	-.0257	.1030	-.4061	-.3599	-.2861	-.0943	-.0801	-.0789	-.0765	.1960	.5410	-.1289	-.1316	-.3819
45.000		.0278	.0865	-.3971	-.3192	-.2291	-.1416	-.0735	-.1270	-.1822	.1535				
90.000		.0561	.1115	.0000	-.3357	-.2867	-.2662	-.2558	.0000	-.1666	.1167		-.2430	-.1775	
135.000		.1557	.2339	-.3391	-.2861	-.1157	-.1987	-.2763	-.3271	-.2050	.0289				
180.000	1.3820	.2853	.4435	-.2775	-.1739	.0917	-.0334	-.1015	-.2622	-.1337	.0032	.6352	-.1142	-.2511	-.4905
225.000		.2751	.5905	-.2414	-.0961	.2069	.0335	-.0176	-.1337	.0472	.2047				
270.000		.1238	.6236	-.1703	-.0915	.0000	-.3390	-.0714	-.1070	-.0082	.0000	.5533	.2778	.3089	-.4671
315.000		-.0254	.1148	-.4500	-.5401	-.3929	-.2377	-.0825	-.0621	-.0528	.1955				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0104	-.2814	.0650	-.1716	.2966	.3614
45.000	-.0176	-.2631			.0433	.0234
90.000	-.1223	-.1323	.0573	-.0349	-.0022	-.0548
135.000	-.1055	-.1791			.1783	.1826
180.000	-.0773	-.2903	.1937	-.1336	.1506	.0751

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(1) = -6.673   BETAL (5) =   4.383

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2799	-.2307			-.0664	.0000
270.000	-.2714	-.2246	-.1196	-.1838	-.1621	-.1733
315.000	-.2277	-.2848			.0635	.1089

ALPHAL(2) = -4.603   BETAL (1) = -6.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4915	.1704	.2474	-.3496	-.2803	-.2398	-.2135	-.1195	-.0901	-.0955	.1312	.1625	-.1334	-.0434	-.2801
45.000		.2486	.2851	-.3330	-.2435	-.1776	-.1963	-.1969	-.1844	-.1543	.1046				
90.000		.3284	.3700	.0000	-.1914	-.1623	-.1151	-.2025	.0000	-.2148	.0342		-.0910	-.0329	
135.000		.3871	.4428	-.2604	-.1669	-.0480	.1537	.0354	-.0731	-.0949	.2639				
180.000	1.4915	.3621	.4729	-.2634	-.1724	-.1335	.2337	.0502	-.0150	-.0722	.4179	.6304	.2146	.1475	-.3565
225.000		.2619	.5621	-.2546	-.1488	-.2870	.2167	.0354	.0309	-.1018	.5278				
270.000		.1351	.6680	-.1691	-.1878	.0000	-.2718	-.1469	-.0455	-.0656	.0000	.9944	.6042	.5024	-.5185
315.000		.1104	.2664	-.3753	-.3878	-.3547	-.2013	-.1252	-.0284	-.0573	.2549				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0675	-.2775	-.1379	-.2297	-.0917	-.0932
45.000	-.0238	-.3285			.0597	.1285
90.000	-.2734	-.3024	-.0366	-.0718	.1678	.2286
135.000	.2033	-.3457			.2644	.3889
180.000	.2030	-.3067	.0832	.1854	.3839	.3535
225.000	-.1588	-.3042			.2709	.0000
270.000	-.2723	-.2251	-.0783	-.1650	-.1179	-.1038
315.000	-.2294	-.2650			-.0938	-.1188

ALPHAL(2) = -4.571   BETAL (2) = -3.997

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4765	.1387	.2253	-.3448	-.2881	-.2443	-.2014	-.0743	-.0963	-.0868	.1305	.1908	-.0967	.0040	-.2841
45.000		.2108	.2541	-.3379	-.2508	-.1831	-.1708	-.1753	-.1420	-.1500	.0922				
90.000		.2754	.3208	.0000	-.2134	-.1843	-.1284	-.2258	.0000	-.2008	.0518		-.1039	-.0477	
135.000		.3337	.4104	-.2740	-.1840	-.0723	.1087	-.0116	-.1009	-.1296	.2565				
180.000	1.4765	.3319	.4636	-.2642	-.1785	-.1311	.1946	.0107	-.0560	-.0850	.3882	.6437	.1911	.0918	-.3845
225.000		.2445	.5636	-.2526	-.1555	-.2612	.1904	-.0021	.0000	-.0793	.4885				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(2) =   -4.571   BETAL (2) =   -3.997

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.1174	.6700	-.1638	-.1776	.0000	-.2799	-.1073	-.0632	-.0557	.0000	.9285	.5357	.5081	-.4988
315.000		.0807	.2568	-.3806	-.4100	-.3687	-.2157	-.1016	-.0326	-.0614	.2533				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1076	-.2516	-.0743	-.1727	-.0698	-.0942
45.000	.0055	-.2860			.0590	.1126
90.000	-.2303	-.2912	-.0457	-.0627	.1418	.1959
135.000	.1605	-.3430			.2397	.3824
180.000	.1752	-.3166	.0644	.1712	.3854	.3542
225.000	-.1783	-.2734			.1787	.0000
270.000	-.2578	-.2112	-.0954	-.1689	-.1192	-.1009
315.000	-.2044	-.2596			-.0811	-.1228

ALPHAL(2) =   -4.508   BETAL (3) =   .123

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4456	.0726	.1900	-.3673	-.3074	-.2468	-.1325	-.0369	-.0761	-.0777	.1918	.3224	-.0243	-.0246	-.2844
45.000		.1309	.1891	-.3532	-.2704	-.1880	-.1406	-.0755	-.0978	-.1200	.1340				
90.000		.1792	.2225	.0000	-.2560	-.2199	-.1521	-.2303	.0000	-.1834	.1292		-.1669	-.0979	
135.000		.2399	.3284	-.2983	-.2245	-.1253	-.0043	-.1094	-.1703	-.1538	.1783				
180.000	1.4456	.2747	.4383	-.2686	-.1844	-.0518	.0934	-.0649	-.1421	-.1544	.2055	.6828	.0121	-.1429	-.4154
225.000		.2143	.5714	-.2462	-.1586	-.1023	.1101	-.0304	-.0960	-.0816	.3418				
270.000		.0846	.6915	-.1418	-.1660	.0000	-.3027	-.0794	-.0864	-.0711	.0000	.7964	.3053	.3698	-.4133
315.000		.0333	.2369	-.3886	-.4385	-.3725	-.2029	-.1070	-.0526	-.0556	.2386				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0480	-.3108	.1367	-.2225	.0540	-.0066
45.000	-.0128	-.2339			.0074	-.0203
90.000	-.1132	-.1938	.0148	-.0384	.0707	.0870
135.000	.0624	-.2796			.2193	.3205
180.000	.0556	-.3010	.0579	.1147	.3029	.2546
225.000	-.1785	-.3053			.0582	.0000
270.000	-.2425	-.2171	-.0836	-.1853	-.1428	-.1184
315.000	-.1990	-.2728			-.0598	.0041

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(2) =   -4.461   BETAL (4) =   4.298

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3990	.0147	.1591	-.3810	-.3321	-.2703	-.0774	-.0424	-.0495	-.0491	.2015	.3737	-.1626	-.1010	-.3325
45.000		.0606	.1381	-.3738	-.2920	-.1997	-.0789	-.0442	-.0821	-.0915	.2093				
90.000		.0886	.1459	.0000	-.2972	-.2367	-.1681	-.1587	.0000	-.1442	.1480			-.2570	-.2504
135.000		.1426	.2383	-.3306	-.2774	-.1358	-.1326	-.2037	-.2276	-.1373	.1510				
180.000	1.3990	.2149	.4033	-.2847	-.2098	.0499	-.0202	-.1002	-.2276	-.0428	.0559	.6383	-.1154	-.2459	-.4548
225.000		.1912	.5672	-.2498	-.1663	.1618	.0044	-.0104	-.1340	.0655	.2335				
270.000		.0681	.7028	-.1196	-.1856	.0000	-.3398	-.0495	-.0978	.0185	.0000	.5784	.3010	.3515	-.4422
315.000		-.0018	.2221	-.3985	-.4483	-.3781	-.1670	-.0753	-.0604	-.0353	.1795				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0523	-.2789	.0299	-.1301	.2425	.3041
45.000	.0481	-.2905			.1524	.0950
90.000	-.0932	-.1480	.0409	-.0304	.0421	-.0162
135.000	-.0747	-.1839			.1477	.2075
180.000	-.0413	-.2553	.1331	-.0397	.1566	.0898
225.000	-.2709	-.2304			-.0542	.0000
270.000	-.2632	-.2231	-.1045	-.1758	-.1535	-.1630
315.000	-.2265	-.2755			-.0049	.0437

ALPHAL(2) =   -4.418   BETAL (5) =   6.382

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3728	-.0161	.1362	-.3892	-.3438	-.2800	-.0779	-.0595	-.0518	-.0552	.2025	.3265	-.1343	-.0594	-.3271
45.000		.0263	.1166	-.3841	-.3058	-.2053	-.0485	-.0491	-.0797	-.0917	.2279				
90.000		.0413	.1130	.0000	-.3168	-.2381	-.1804	-.1409	.0000	-.1393	.1768			-.2592	-.2652
135.000		.0992	.1914	-.3530	-.3064	-.1278	-.2054	-.2405	-.2449	-.0773	.1112				
180.000	1.3728	.1989	.3733	-.2997	-.2228	.0530	-.0952	-.1213	-.2527	-.0040	.0801	.5759	-.2288	-.3608	-.4441
225.000		.2659	.5490	-.2617	-.1912	.2101	-.0420	.0394	-.1611	.0544	.2202				
270.000		.1647	.7018	-.1112	-.2114	.0000	-.3641	-.0384	-.1022	.0071	.0000	.5181	.2287	.1942	-.4694
315.000		.0401	.2100	-.4093	-.4620	-.3888	-.1745	-.0803	-.0591	-.0372	.1851				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0567	-.2693	.0660	-.0499	.2566	.2815
45.000	.0299	-.2806			.3071	.2976
90.000	-.0549	-.1674	.0672	-.0383	.0952	.0509
135.000	-.1027	-.1444			.0631	.0331
180.000	-.1051	-.1880	.1189	-.0921	.0598	.0151

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(2) =   -4.418   BETAL (5) =   6.382

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2668	-.2389			-.0636	.0000
270.000	-.2705	-.2273	-.1201	-.1771	-.1614	-.1748
315.000	-.2242	-.2760			.0149	.0594

ALPHAL(3) =   -2.374   BETAL (1) =   -6.107

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4941	.2098	.3004	-.3276	-.2547	-.2134	-.1627	-.0609	-.0639	-.0656	.1565	.2747	-.1108	.1441	-.2132
45.000		.2923	.3331	-.3138	-.2177	-.1336	-.1666	-.0862	-.0915	-.1054	.2109				
90.000		.3445	.3919	.0000	-.1801	-.1162	-.0580	-.1075	.0000	-.1242	.1418		-.0619	-.0030	
135.000		.3526	.4063	-.2657	-.1801	-.0633	.1504	.0613	-.0423	-.0530	.3639				
180.000	1.4941	.3016	.4153	-.2776	-.2036	-.1749	.2177	.0613	-.0064	-.0620	.4751	.6396	.2132	.1597	-.3006
225.000		.2194	.4997	-.2786	-.2027	-.3000	.1860	.0320	.0253	-.0967	.5624				
270.000		.1492	.6962	-.1541	-.3342	.0000	-.3034	-.2093	-.0342	-.0563	.0000	1.0306	.6393	.5126	-.4835
315.000		.1468	.3565	-.3410	-.3128	-.3289	-.1770	-.0974	-.0091	-.0430	.2468				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0475	-.2991	-.1872	-.2691	-.0553	.0279
45.000	.0042	-.3205			.1565	.2204
90.000	-.1790	-.2703	-.0045	-.0369	.1836	.2483
135.000	.2228	-.3248			.2341	.3089
180.000	.2146	-.2890	.0903	.1239	.2694	.3092
225.000	-.1254	-.2660			.2335	.0000
270.000	-.2501	-.2136	-.0722	-.1614	-.1088	-.1074
315.000	-.2311	-.2703			-.1091	-.1110

ALPHAL(3) =   -2.326   BETAL (2) =   -1.992

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4627	.1511	.2636	-.3403	-.2766	-.2374	-.1248	-.0192	-.0700	-.0577	.2327	.2941	-.0149	.1132	-.2230
45.000		.2012	.2591	-.3304	-.2438	-.1550	-.1462	-.0353	-.0700	-.0909	.1780				
90.000		.2435	.2861	.0000	-.2255	-.1568	-.0768	-.1296	.0000	-.1195	.1051		-.1051	-.0455	
135.000		.2645	.3364	-.2959	-.2166	-.1057	.0724	-.0160	-.0705	-.1004	.3122				
180.000	1.4627	.2519	.3892	-.2861	-.2175	-.1816	.1499	-.0198	-.0780	-.1118	.3977	.6951	.1210	.0127	-.3721
225.000		.1880	.4993	-.2803	-.2114	-.2711	.1478	-.0415	-.0371	-.1004	.4467				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(3) = -2.326   BETAL (2) = -1.992

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.1140	.7145	-.1363	-.3198	.0000	-.3085	-.1159	-.0810	-.0550	.0000	.8991	.4896	.4846	-.4492
315.000		.0981	.3361	-.3495	-.3461	-.3373	-.1782	-.0981	-.0389	-.0395	.2518				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0851	-.2898	-.0756	-.1397	.0204	.0451
45.000	.0811	-.2898			.1740	.2198
90.000	-.1004	-.2441	-.0075	-.0295	.1508	.1874
135.000	.1692	-.3134			.2046	.2949
180.000	.1732	-.2965	.0703	.1318	.2949	.3135
225.000	-.1691	-.2794			.1357	.0000
270.000	-.2405	-.2040	-.0827	-.1498	-.1198	-.1065
315.000	-.2187	-.2472			-.1133	-.0858

ALPHAL(3) = -2.286   BETAL (3) =   2.162

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4278	.0926	.2299	-.3534	-.2967	-.2425	-.1020	-.0257	-.0471	-.0410	.2239	.3610	-.1157	-.0598	-.2688
45.000		.1277	.1987	-.3507	-.2602	-.1712	-.0955	-.0070	-.0634	-.0685	.2359				
90.000		.1522	.2029	.0000	-.2584	-.1850	-.1088	-.0898	.0000	-.1098	.1608		-.2044	-.1876	
135.000		.1735	.2706	-.3157	-.2508	-.1461	-.0156	-.1038	-.1274	-.1403	.2329				
180.000	1.4278	.1945	.3773	-.2912	-.2229	-.0968	.0316	-.0821	-.1444	-.0912	.2185	.5543	-.1001	-.1888	-.3956
225.000		.1606	.5191	-.2713	-.2055	-.0405	.0521	-.0560	-.1005	.0714	.3088				
270.000		.0830	.7387	-.1121	-.3037	.0000	-.3223	-.0776	-.0763	.0427	.0000	.7007	.2255	.3214	-.3989
315.000		.0593	.3315	-.3561	-.3646	-.3411	-.1504	-.1085	-.0556	-.0251	.2080				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0559	-.2655	-.0459	-.1801	.2089	.2315
45.000	.1022	-.2731			.1127	.0881
90.000	-.0529	-.1423	.0076	-.0096	.0706	.0319
135.000	.0136	-.1851			.1172	.1431
180.000	.0249	-.2557	.0964	.0685	.2784	.2242
225.000	-.1732	-.2823			.0806	.0000
270.000	-.2352	-.2065	-.0569	-.1667	-.1263	-.1048
315.000	-.2092	-.2566			-.0571	.0063

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(3) = -2.233   BETAL (4) =   6.302

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3795	.0286	.1854	-.3678	-.3201	-.2639	-.0828	-.0478	-.0416	-.0442	.2068	.3300	-.0674	-.1465	-.2953
45.000		.0448	.1434	-.3780	-.2956	-.1889	-.0179	-.0270	-.0525	-.0762	.2406				
90.000		.0616	.1390	.0000	-.2889	-.2006	-.0885	-.0647	.0000	-.1329	.2218		-.3124	-.3052	
135.000		.0820	.1929	-.3455	-.2926	-.1358	-.1264	-.1516	-.1673	-.0272	.2164				
180.000	1.3795	.1312	.3384	-.3079	-.2516	.0287	-.0781	-.1305	-.1876	.0472	.1160	.6172	-.1642	-.3181	-.4053
225.000		.1225	.5174	-.2739	-.2348	.1134	-.0110	-.0748	-.1470	.0801	.2466				
270.000		.0901	.7615	-.0920	-.3177	.0000	-.3592	-.0828	-.0914	.0269	.0000	.5786	.3237	.3612	-.4368
315.000		.0286	.3039	-.3663	-.3736	-.3127	-.1143	-.0686	-.0481	-.0176	.2151				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0509	-.1971	.0425	.0071	.1630	.1485
45.000	.0850	-.2571			.3204	.3017
90.000	-.0131	-.1497	.0528	.0065	.1292	.0852
135.000	-.0610	-.1381			.0941	.0726
180.000	-.0735	-.1650	.1229	-.0425	.0680	.0155
225.000	-.2495	-.2473			-.0101	.0000
270.000	-.2534	-.2130	-.0618	-.1568	-.1357	-.1411
315.000	-.2124	-.2742			.0300	.0843

ALPHAL(4) =   -.143   BETAL (1) = -6.129

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4922	.2501	.3557	-.3107	-.2361	-.1915	-.1104	-.0350	-.0442	-.0538	.2438	.3582	-.0434	.1825	-.1806
45.000		.3116	.3692	-.3017	-.1994	-.0945	-.1202	-.0113	-.0232	-.0592	.2958				
90.000		.3395	.3851	.0000	-.1820	-.1042	-.0846	-.0196	.0000	-.0368	.2169		-.0256	.0158	
135.000		.3161	.3809	-.2857	-.1988	-.1046	.1024	.0576	-.0195	-.0213	.4291				
180.000	1.4922	.2519	.3587	-.2967	-.2374	-.2019	.1555	.0724	.0122	-.0550	.5271	.6835	.1954	.1260	-.2629
225.000		.1815	.4298	-.3114	-.2735	-.2456	.0875	.0549	-.0153	-.0804	.6048				
270.000		.1692	.7120	-.1437	-.4237	.0000	-.2445	-.2587	-.0505	-.0748	.0000	1.0475	.6123	.4972	-.5831
315.000		.1767	.4319	-.3117	-.2404	-.2860	-.1098	-.1006	-.0135	-.0278	.2735				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0833	-.3259	-.1584	-.2537	.0230	.1191
45.000	.0744	-.2992			.2471	.3150
90.000	-.0515	-.2162	.0230	-.0575	.2076	.2521
135.000	.2507	-.2958			.1969	.2372
180.000	.2060	-.2539	.1022	.0901	.1933	.2286

ARC11-019 IA8! LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(4) =   -.143   BETAL (1) =   -6.129

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1010	-.2784			.2919	.0000
270.000	-.2398	-.2150	-.0486	-.1530	-.1100	-.1075
315.000	-.1960	-.2600			-.1272	-.0754

ALPHAL(4) =   -.130   BETAL (2) =   -4.076

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4794	.2133	.3339	-.3236	-.2451	-.2083	-.1008	-.0167	-.0434	-.0525	.2530	.3432	-.0233	.2017	-.1837
45.000		.2644	.3306	-.3140	-.2154	-.1104	-.1237	.0050	-.0202	-.0591	.2863		-.0435	-.0020	
90.000		.2825	.3252	.0000	-.2031	-.1258	-.0812	-.0345	.0000	-.0534	.2211				
135.000		.2674	.3276	-.2955	-.2151	-.1156	.0853	.0244	-.0474	-.0510	.3937				
180.000	1.4794	.2157	.3366	-.3050	-.2433	-.2049	.1418	.0374	-.0183	-.0747	.4912	.6922	.1789	.0952	-.2917
225.000		.1528	.4187	-.3160	-.2774	-.2553	.0945	-.0039	-.0192	-.0693	.5586				
270.000		.1243	.7231	-.1390	-.4228	.0000	-.2937	-.2610	-.0627	-.0813	.0000	1.0066	.5995	.5195	-.5417
315.000		.1474	.4223	-.3200	-.2645	-.2821	-.1079	-.0889	-.0483	-.0408	.2580				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0895	-.3121	.1038	-.1835	.0659	.1386
45.000	.0739	-.2893			.2386	.3050
90.000	-.0519	-.2129	.0269	-.0493	.1865	.2195
135.000	.2305	-.2989			.1847	.2272
180.000	.1967	-.2546	.0921	.0906	.2026	.2404
225.000	-.1119	-.2648			.2597	.0000
270.000	-.2344	-.2114	-.0531	-.1523	-.1049	-.0882
315.000	-.2034	-.2421			-.1106	-.0717

ALPHAL(4) =   -.115   BETAL (3) =   .043

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4466	.1634	.2994	-.3296	-.2605	-.2207	-.0983	-.0216	-.0398	-.0385	.2297	.3696	-.1054	.0515	-.2283
45.000		.1886	.2606	-.3359	-.2477	-.1389	-.1161	.0084	-.0341	-.0574	.2560		-.1226	-.0940	
90.000		.2003	.2288	.0000	-.2370	-.1548	-.0469	-.0371	.0000	-.0720	.2240				
135.000		.1958	.2564	-.3135	-.2406	-.1313	.0206	-.0350	-.0562	-.1044	.3201				
180.000	1.4466	.1715	.3234	-.3083	-.2480	-.2026	.0814	-.0513	-.0670	-.1320	.3729	.7796	-.0491	-.1491	-.3542
225.000		.1303	.4267	-.3089	-.2725	-.2415	.0725	-.0371	-.0741	-.0876	.4016				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(4) =   -.115   BETAL (3) =   .043

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI																
270.000		.1006	.7407	-.1150	-.4265	.0000	-.2797	-.1369	-.1056	-.0370	.0000	.7717	.2205	.3064	-.4106
315.000		.1177	.4110	-.3206	-.2731	-.2833	-.1030	-.0790	-.0622	-.0403	.2217				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0629	-.2758	-.0297	-.1207	.0866	.1187
45.000	.0449	-.2320			.1952	.2145
90.000	-.0443	-.2072	.0399	-.0276	.1752	.1952
135.000	.1784	-.2829			.1800	.2163
180.000	.1123	-.2351	.0860	.0967	.2136	.2172
225.000	-.2051	-.2936			.1181	.0000
270.000	-.2317	-.1992	-.0333	-.1424	-.1079	-.0957
315.000	-.2066	-.2532			-.0919	-.0546

ALPHAL(4) =   -.109   BETAL (4) =   4.202

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI																
.000	1.4056	.1112	.2588	-.3436	-.2848	-.2441	-.0866	-.0433	-.0406	-.0359	.2184	.4119	-.0519	-.0859	-.2800
45.000		.1076	.1880	-.3655	-.2827	-.1737	-.0352	-.0139	-.0412	-.0601	.2187				
90.000		.1103	.1559	.0000	-.2689	-.1753	-.0483	-.0278	.0000	-.0987	.2283		-.2749	-.3043	
135.000		.1115	.2069	-.3390	-.2701	-.1642	-.0385	-.0783	-.0891	-.0580	.2669				
180.000	1.4056	.1088	.2957	-.3178	-.2671	-.1321	.0042	-.0967	-.1205	.0679	.2334	.5955	-.1592	-.2373	-.3800
225.000		.0938	.4280	-.3065	-.2625	-.1196	.0383	-.0753	-.0999	.1478	.2875				
270.000		.0734	.7306	-.1196	-.3995	.0000	-.2969	-.0931	-.0897	.0563	.0000	.6619	.2662	.3615	-.4140
315.000		.0908	.4040	-.3240	-.2802	-.2803	-.0848	-.0694	-.0502	-.0116	.2326				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0228	-.2040	.0773	-.0237	.1338	.1231
45.000	.0424	-.2168			.1914	.1578
90.000	.0054	-.1773	.0803	-.0251	.1641	.1145
135.000	.0199	-.1755			.0969	.0883
180.000	.0235	-.2147	.1127	.0322	.1905	.1538
225.000	-.1908	-.2818			.0782	.0000
270.000	-.2367	-.2003	-.0248	-.1463	-.1053	-.0896
315.000	-.1954	-.2542			.0111	.0742

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(4) =   -.080   BETAL (5) =   6.260

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3834	.0800	.2411	-.3481	-.2934	-.2404	-.0968	-.0621	-.0452	-.0394	.2333				
45.000		.0695	.1586	-.3745	-.2964	-.1911	-.0167	-.0303	-.0490	-.0684	.2288	.4479	-.0228	-.1052	-.3258
90.000		.0677	.1412	.0000	-.2805	-.1801	-.0306	-.0371	.0000	-.1060	.2497				
135.000		.0704	.1754	-.3515	-.2854	-.1642	-.0911	-.0832	-.1117	-.0074	.2542			-.2955	-.3243
180.000	1.3834	.0803	.2861	-.3218	-.2728	-.0541	-.0449	-.1132	-.1410	.0692	.1813	.6241	-.1337	-.2889	-.3749
225.000		.0761	.4295	-.3074	-.2606	-.0657	-.0146	-.0802	-.1225	.1164	.2707				
270.000		.0641	.7136	-.1471	-.3913	.0000	-.2714	-.0752	-.0854	.0461	.0000	.6679	.3561	.4844	-.4205
315.000		.0746	.3959	-.3261	-.2722	-.2619	-.0814	-.0844	-.0429	-.0077	.2368				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0114	-.2040	.1499	.0056	.2568	.2642
45.000	.0408	-.2025			.1846	.1306
90.000	-.0066	-.1401	.1188	.0181	.1375	.0918
135.000	-.0071	-.1515			.1087	.0954
180.000	-.0227	-.1594	.1348	-.0267	.0776	.0253
225.000	-.2264	-.2799			.0569	.0000
270.000	-.2462	-.2080	.0115	-.1283	-.0939	-.0967
315.000	-.1995	-.2661			.0862	.1584

ALPHAL(5) =   2.105   BETAL (1) =   -6.091

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4897	.2971	.4107	-.2966	-.2076	-.1660	-.0685	-.0117	-.0123	-.0327	.2859				
45.000		.3434	.3977	-.2948	-.1822	-.0603	-.0916	.0123	.0224	-.0207	.3473	.3614	.0725	.0398	-.1669
90.000		.3361	.3869	.0000	-.1828	-.1172	-.1002	.0328	.0000	.0014	.3242				
135.000		.2845	.3352	-.2968	-.2189	-.1451	.0061	.0340	-.0079	-.0082	.4451		.0043	.0491	
180.000	1.4897	.2109	.3103	-.3139	-.2591	-.1791	.0583	.0298	.0008	-.0411	.5546				
225.000		.1463	.3563	-.3415	-.3305	-.2333	-.0551	.0456	.0259	.0203	.6486	.7267	.2149	.1332	-.2134
270.000		.1541	.6994	-.1555	-.4270	.0000	-.1023	-.1427	-.0665	-.1033	.0000				
315.000		.2124	.5035	-.2833	-.1724	-.1840	-.0557	-.0313	-.0372	-.0249	.2743	1.1144	.6636	.5056	-.5799

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0567	-.2965	-.0888	-.1613	.0785	.1454
45.000	.1272	-.2631			.2925	.3611
90.000	.0055	-.1764	.0871	-.0493	.2375	.2696
135.000	.2911	-.2845			.1935	.2182
180.000	.2106	-.2517	.1261	.0821	.1813	.1865

ARC11-019 IA8I LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(5) = 2.105   BETAL (1) = -6.091

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1047	-.3148			.2981	.0000
270.000	-.2330	-.1816	-.0225	-.1194	-.0656	-.0638
315.000	-.1800	-.2542			-.0837	-.0233

ALPHAL(5) = 2.097   BETAL (2) = -1.985

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4608	.2383	.3743	-.3029	-.2224	-.2020	-.0790	-.0137	-.0238	-.0220	.2459	.4036	-.0267	.0498	-.2206
45.000		.2552	.3281	-.3074	-.2191	-.1037	-.1030	.0222	-.0039	-.0283	.3006				
90.000		.2389	.2859	.0000	-.2249	-.1554	-.0920	.0133	.0000	-.0346	.2932		-.0636	-.0378	
135.000		.2032	.2693	-.3152	-.2460	-.1490	.0290	-.0065	-.0271	-.0501	.3555				
180.000	1.4608	.1477	.2747	-.3302	-.2717	-.1637	.0328	-.0208	-.0429	-.0908	.4705	.7187	.1098	.0231	-.2707
225.000		.0993	.3389	-.3454	-.3293	-.2393	-.0336	-.0247	-.0166	-.0468	.5186				
270.000		.1108	.7187	-.1346	-.3960	.0000	-.0828	-.0739	-.0657	-.0516	.0000	.9074	.4804	.4354	-.3256
315.000		.1765	.4971	-.2824	-.1949	-.1950	-.0677	-.0288	-.0400	-.0187	.2271				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0414	-.2643	.0033	-.1091	.1410	.1734
45.000	.1275	-.2010			.2053	.2173
90.000	-.0495	-.1927	.0888	-.0311	.2300	.2374
135.000	.2472	-.2769			.1811	.1982
180.000	.1631	-.2555	.1054	.0870	.1909	.2042
225.000	-.1343	-.2693	•		.2229	.0000
270.000	-.2224	-.1989	-.0373	-.1284	-.0859	-.0692
315.000	-.2022	-.2448			-.0616	-.0381

ALPHAL(5) = 2.064   BETAL (3) = 2.166

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4202	.1852	.3395	-.3146	-.2447	-.2331	-.0750	-.0462	-.0387	-.0276	.2171	.3704	-.0020	-.0326	-.2723
45.000		.1666	.2549	-.3426	-.2591	-.1605	-.0883	.0013	-.0328	-.0488	.2407				
90.000		.1483	.1999	.0000	-.2610	-.1810	-.0411	-.0034	.0000	-.0674	.2324		-.1888	-.1831	
135.000		.1270	.2044	-.3354	-.2656	-.1580	.0002	-.0465	-.0638	-.0794	.2961				
180.000	1.4202	.0970	.2564	-.3345	-.2842	-.1783	.0106	-.1085	-.0500	.0239	.3096	.6197	-.0486	-.1717	-.3156
225.000		.0693	.3416	-.3458	-.3247	-.2646	-.0099	-.0411	-.0509	.1336	.3499				

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(5) =   2.064   BETAL (3) =   2.166

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0855	.7319	-.1213	-.3780	.0000	-.0871	-.0690	-.0584	.0613	.0000	.6335	.1974	.1938	-.3618
315.000		.1477	.4920	-.2867	-.2028	-.2160	-.0672	-.0563	-.0345	.0059	.2136				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0230	-.2180	.0643	-.0560	.1890	.2068
45.000	.0434	-.1696			.1332	.0972
90.000	-.0278	-.1733	.0958	-.0227	.1917	.1807
135.000	.1275	-.2361			.1911	.1791
180.000	.0070	-.1739	.0955	.0530	.1240	.0977
225.000	-.1628	-.3005			.1498	.0000
270.000	-.2235	-.1895	.0153	-.1073	-.0613	-.0491
315.000	-.1956	-.2404			-.0111	.0475

ALPHAL(5) =   2.067   BETAL (4) =   6.296

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3719	.1330	.2982	-.3315	-.2682	-.2450	-.1113	-.0833	-.0501	-.0400	.2346	.5480	-.0469	-.0692	-.3414
45.000		.0835	.1747	-.3714	-.3025	-.2064	-.0626	-.0340	-.0453	-.0786	.2190				
90.000		.0616	.1231	.0000	-.2875	-.1911	-.0136	-.0340	.0000	-.0878	.1960		-.2795	-.2997	
135.000		.0486	.1582	-.3619	-.2845	-.1697	-.0456	-.0884	-.0869	.0195	.2669				
180.000	1.3719	.0342	.2282	-.3429	-.3035	-.0974	-.0424	-.0507	-.1052	.0797	.2286	.5853	-.1720	-.2804	-.3516
225.000		.0306	.3444	-.3463	-.3203	-.2242	-.0133	-.0207	-.1034	.1194	.2759				
270.000		.0676	.7566	-.0873	-.3485	.0000	-.0706	-.0795	-.0759	.0599	.0000	.5441	.2241	.2863	-.4135
315.000		.1252	.4927	-.2894	-.2129	-.2033	-.0575	-.0913	-.0406	.0040	.2316				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0050	-.1898	.1721	.0286	.3258	.3460
45.000	.1027	-.1920			.2553	.2087
90.000	-.0043	-.1190	.1275	.0140	.1507	.1163
135.000	.0182	-.1353			.0996	.0626
180.000	.0056	-.1491	.1400	-.0297	.0741	.0198
225.000	-.2015	-.2983			.0723	.0000
270.000	-.2419	-.1889	.0648	-.0933	-.0469	-.0760
315.000	-.1950	-.2440			.1136	.1521

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(6) =   4.262   BETAL (1) = -6.014

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4823	.3585	.4670	-.2785	-.1739	-.1406	-.0822	.0171	.0162	.0164	.2438	.3719	-.0869	-.1049	-.2099
45.000		.3735	.4325	-.2818	-.1650	-.0440	-.0902	-.0007	.0334	.0098	.3540				
90.000		.3286	.3717	.0000	-.1892	-.1598	-.1404	.0106	.0000	-.0147	.3387		-.0059	.0252	
135.000		.2557	.2905	-.3108	-.2411	-.1757	-.0529	.0157	-.0087	-.0120	.3955				
180.000	1.4823	.1799	.2557	-.3221	-.2741	-.1363	-.0084	.0032	.0188	.0170	.4853	.6544	.1545	.1272	-.1436
225.000		.1233	.2800	-.3685	-.3770	-.2292	-.0733	.0201	.0286	.0656	.5590				
270.000		.1539	.6621	-.1708	-.4574	.0000	-.0155	.0139	-.0165	.0307	.0000	.8052	.4697	.2903	-.4935
315.000		.2563	.5626	-.2564	-.1064	-.1587	-.0211	.0127	.0017	.0316	.1866				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0098	-.2980	.0172	-.1837	.2137	.2451
45.000	.2313	-.1814			.2356	.2543
90.000	.0366	-.1330	.1212	-.0106	.2558	.2395
135.000	.2892	-.2631			.1844	.2032
180.000	.2109	-.2490	.1526	.0717	.1731	.1518
225.000	-.1453	-.3218			.1716	.0000
270.000	-.1982	-.1526	.0338	-.0859	-.0281	-.0203
315.000	-.1667	-.2251			-.0252	.0391

ALPHAL(6) =   4.245   BETAL (2) = -3.964

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4671	.3259	.4491	-.2816	-.1822	-.1580	-.0782	.0062	.0033	.0050	.2246	.3657	-.0445	-.0683	-.2141
45.000		.3253	.4027	-.2888	-.1874	-.0736	-.0990	.0039	.0231	-.0055	.3311				
90.000		.2780	.3167	.0000	-.2130	-.1794	-.1426	.0104	.0000	-.0354	.3182		-.0502	-.0325	
135.000		.2165	.2531	-.3151	-.2473	-.1764	-.0311	.0143	-.0147	-.0348	.3673				
180.000	1.4671	.1413	.2399	-.3286	-.2855	-.1571	-.0106	.0042	.0068	-.0067	.4501	.6298	.0704	.0863	-.1625
225.000		.0915	.2732	-.3705	-.3424	-.2036	-.0782	.0202	.0152	.0648	.4995				
270.000		.1293	.6680	-.1626	-.3628	.0000	-.0406	.0101	-.0141	.0502	.0000	.6745	.3324	.2027	-.4416
315.000		.2387	.5597	-.2561	-.1140	-.1716	-.0293	.0048	-.0114	.0242	.1979				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0040	-.2524	-.0017	-.1356	.2580	.3102
45.000	.1595	-.2130			.2494	.2473
90.000	.0164	-.1266	.1087	-.0088	.2179	.1930
135.000	.2670	-.2613			.1864	.1955
180.000	.1804	-.2433	.1446	.0826	.1820	.1625

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(6) =   4.245   BETAL (2) =   -3.964

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1475	-.3210			.2164	.0000
270.000	-.1958	-.1588	.0306	-.0872	-.0207	-.0227
315.000	-.1732	-.2065			-.0204	.0386

ALPHAL(6) =   4.213   BETAL (3) =   .131

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4359	.2690	.4158	-.2862	-.2007	-.1958	-.0606	-.0325	-.0310	-.0021	.2201	.4119	-.0362	-.0575	-.2763
45.000		.2345	.3133	-.3164	-.2353	-.1352	-.1045	-.0135	-.0221	-.0322	.2972		-.1678	-.1792	
90.000		.1809	.2267	.0000	-.2555	-.2157	-.1170	.0034	.0000	-.0654	.2757				
135.000		.1360	.2022	-.3347	-.2729	-.1674	-.0088	-.0159	-.0212	-.0439	.3079				
180.000	1.4359	.0778	.2085	-.3519	-.2974	-.1478	-.0185	-.0340	-.0185	.0544	.?318	.5680	-.0824	-.1021	-.2289
225.000		.0419	.2552	-.3812	-.3326	-.2543	-.0618	-.0058	-.0206	.1240	.3671				
270.000		.0955	.6842	-.1466	-.3684	.0000	-.0568	-.0176	-.0304	.0783	.0000	.5105	.1823	.1140	-.3851
315.000		.2067	.5590	-.2592	-.1331	-.1825	-.0262	-.0265	-.0248	.0296	.1973				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0165	-.1791	.0900	-.0019	.2294	.2486
45.000	.0777	-.1828			.2937	.2890
90.000	.0058	-.1183	.1110	.0090	.1339	.0814
135.000	.2078	-.2332			.2187	.2108
180.000	.0712	-.1809	.1383	.0755	.1585	.1283
225.000	-.1238	-.3230			.2071	.0000
270.000	-.2026	-.1592	.0452	-.0672	-.0007	-.0173
315.000	-.1770	-.2042			.0698	.1181

ALPHAL(6) =   4.173   BETAL (4) =   4.272

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3876	.2147	.3742	-.3060	-.2268	-.2284	-.1017	-.0768	-.0483	-.0292	.2233	.5009	.0175	-.0227	-.3405
45.000		.1423	.2279	-.3526	-.2813	-.2072	-.1234	-.0459	-.0528	-.0690	.2197		-.2481	-.2754	
90.000		.0877	.1360	.0000	-.2948	-.2333	-.0341	-.0210	.0000	-.0702	.1999				
135.000		.0706	.1393	-.3557	-.2878	-.1564	-.0094	-.0447	-.0468	.0046	.2619				
180.000	1.3876	.0222	.1886	-.3567	-.3159	-.1815	-.0216	-.0450	-.0576	.0905	.2720	.4841	-.1827	-.2235	-.2841
225.000		.0048	.2513	-.3854	-.3273	-.2761	-.0525	-.0361	-.0663	.1434	.2831				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS12)

ALPHAL(6) =   4.173   BETAL (4) =   4.272

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0628	.7114	-.1172	-.3380	.0000	-.0284	-.0504	-.0453	.0914	.0000	.4610	.1372	.1258	-.3624
315.000		.1817	.5567	-.2608	-.1353	-.1837	-.0145	-.0593	-.0295	.0261	.2149				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0208	-.1682	.1849	.0157	.3151	.3380
45.000	.1078	-.1940			.3053	.2440
90.000	-.0137	-.0925	.1409	.0080	.0963	.0511
135.000	.0663	-.1621			.1296	.0872
180.000	-.0015	-.1412	.1019	.0178	.1251	.0839
225.000	-.1581	-.3178			.1447	.0000
270.000	-.2216	-.1713	.0871	-.0676	.0014	-.0347
315.000	-.1725	-.2311			.1465	.1850

ALPHAL(6) =   4.152   BETAL (5) =   6.366

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3593	.1894	.3496	-.3155	-.2365	-.1901	-.0891	-.1098	-.0481	-.0355	.2237	.5829	-.0566	-.0830	-.3392
45.000		.0946	.1804	-.3689	-.3035	-.2365	-.1496	-.0629	-.0573	-.0941	.2033				
90.000		.0469	.0973	.0000	-.3056	-.2335	-.0181	-.0374	.0000	-.0822	.1950		-.2813	-.3182	
135.000		.0430	.1222	-.3576	-.2897	-.1549	-.0181	-.0612	-.0657	.0281	.2455				
180.000	1.3593	-.0062	.1732	-.3594	-.3224	-.1846	-.0398	-.0469	-.0843	.0963	.2395	.5148	-.1997	-.2624	-.3158
225.000		-.0062	.2443	-.3860	-.3071	-.2680	-.0543	-.0606	-.0894	.1352	.2637				
270.000		.0670	.7123	-.1027	-.3701	.0000	-.0202	-.0713	-.0624	.0816	.0000	.4529	.1535	.1784	-.3963
315.000		.1735	.5479	-.2601	-.1393	-.1537	-.0089	-.0837	-.0257	.0120	.2468				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0349	-.1829	.1924	.0482	.3357	.3405
45.000	.1082	-.2025			.2529	.1939
90.000	-.0233	-.0978	.2120	.0087	.1001	.0603
135.000	.0363	-.1336			.1010	.0578
180.000	.0268	-.1370	.1506	-.0346	.0737	.0210
225.000	-.1780	-.3231			.0734	.0000
270.000	-.2224	-.1795	.1048	-.0640	-.0058	-.0570
315.000	-.1740	-.2257			.1464	.1822

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(7) =   6.393   BETAL (1) =   -3.892

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4521	.3804	.4972	-.2750	-.1510	-.1332	-.0902	.0116	.0012	.0219	.3119	.4478	-.0023	-.0484	-.2519
45.000		.3489	.4141	-.2945	-.1850	-.0848	-.0872	-.0299	.0015	.0030	.3651				
90.000		.2564	.2934	.0000	-.2382	-.2318	-.2042	-.0641	.0000	-.0598	.3229		-.1018	-.0943	
135.000		.1835	.2057	-.3427	-.2830	-.2098	-.1012	-.0059	.0000	.0108	.3119				
180.000	1.4521	.1087	.1895	-.3356	-.3087	-.1203	-.0557	.0018	.0090	.0915	.3648	.4994	.0178	.0256	-.1059
225.000		.0508	.1745	-.4162	-.3552	-.2153	-.1222	.0039	.0150	.1501	.4105				
270.000		.1147	.6225	-.1877	-.3975	.0000	-.0412	.0208	.0219	.1205	.0000	.5287	.2174	.1269	-.4230
315.000		.2754	.6080	-.2434	-.0833	-.1706	-.0204	.0217	.0033	.0473	.2429				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0334	-.1912	.1122	-.0496	.2743	.3091
45.000	.1407	-.1958			.4103	.4151
90.000	.0831	-.0964	.1734	-.0021	.1476	.1152
135.000	.1879	-.2175			.1354	.1101
180.000	.1411	-.2013	.1680	.0487	.1553	.1164
225.000	-.1347	-.3698			.1232	.0000
270.000	-.1961	-.1689	.0608	-.0847	-.0042	-.0037
315.000	-.1686	-.1796			.0341	.1095

ALPHAL(7) =   6.380   BETAL (2) =   -1.857

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4377	.3565	.4838	-.2727	-.1574	-.1492	-.0686	-.0069	-.0134	.0125	.3061	.4757	.0512	-.0038	-.2904
45.000		.3041	.3784	-.3030	-.2067	-.1180	-.1062	-.0499	-.0238	-.0123	.3488				
90.000		.2098	.2520	.0000	-.2593	-.2477	-.1972	-.0558	.0000	-.0669	.3169		-.1408	-.1528	
135.000		.1484	.1819	-.3474	-.2874	-.2024	-.0893	-.0045	.0042	-.0069	.2900				
180.000	1.4377	.0804	.1807	-.3630	-.3189	-.1654	-.0555	.0023	.0062	.1006	.3482	.5303	-.0612	-.0452	-.1633
225.000		.0208	.1636	-.4242	-.3541	-.2272	-.0884	.0053	.0018	.1571	.3482				
270.000		.0986	.6329	-.1800	-.3933	.0000	-.0377	-.0027	.0006	.1266	.0000	.4615	.1891	.1431	-.4061
315.000		.2670	.6117	-.2406	-.0831	-.1854	-.0001	.0085	-.0024	.0448	.2507				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0238	-.1846	.1450	.0016	.2819	.3130
45.000	.1167	-.1775			.3510	.3619
90.000	.0506	-.0900	.1945	.0087	.1012	.0629
135.000	.2285	-.2467			.2046	.1945
180.000	.1351	-.2042	.1607	.0712	.1755	.1416

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(7) = 6.380   BETAL (2) = -1.857

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1423	-.3530			.1551	.0000
270.000	-.1980	-.1634	.0772	-.0591	.0084	.0023
315.000	-.1641	-.1956			.0863	.1368

ALPHAL(7) = 6.357   BETAL (3) = .199

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4205	.3294	.4664	-.2735	-.1663	-.1596	-.0580	-.0328	-.0272	.0056	.2956	.5047	.1157	.0212	-.3055
45.000		.2573	.3314	-.3135	-.2256	-.1465	-.1163	-.0678	-.0435	-.0404	.3287		-.1798	-.1987	
90.000		.1624	.2049	.0000	-.2772	-.2644	-.1826	-.0388	.0000	-.0697	.2971				
135.000		.1137	.1645	-.3484	-.2922	-.1862	-.0506	-.0086	-.0064	.0106	.2580				
180.000	1.4205	.0449	.1627	-.3750	-.3215	-.1791	-.0379	-.0080	-.0100	.1098	.3281	.4795	-.0853	-.1315	-.1948
225.000		-.0060	.1573	-.4223	-.3594	-.2534	-.0790	-.0047	-.0106	.1621	.3296				
270.000		.0834	.6411	-.1614	-.3905	.0000	-.0358	-.0204	-.0124	.1227	.0000	.4480	.1345	.1391	-.4012
315.000		.2549	.6088	-.2363	-.0847	-.1998	.0142	-.0083	-.0150	.0453	.2590				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0266	-.1668	.1962	.0042	.2952	.3174
45.000	.0953	-.1702			.3308	.3139
90.000	.0368	-.0931	.2007	.0045	.0934	.0504
135.000	.1892	-.2249			.2398	.2180
180.000	.0491	-.1656	.1500	.0564	.1349	.0885
225.000	-.1386	-.3182			.1666	.0000
270.000	-.2032	-.1490	.0940	-.0515	.0184	-.0038
315.000	-.1634	-.2069			.1230	.1831

ALPHAL(7) = 6.321   BETAL (4) = 2.263

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3993	.3013	.4426	-.2837	-.1814	-.1615	-.0797	-.0643	-.0403	-.0177	.2853	.5551	.1438	.0505	-.3281
45.000		.2069	.2846	-.3335	-.2542	-.1875	-.1378	-.0924	-.0729	-.0607	.2889		-.2084	-.2363	
90.000		.1187	.1634	.0000	-.3011	-.2778	-.1494	-.0349	.0000	-.0515	.2668				
135.000		.0752	.1352	-.3605	-.3017	-.1805	-.0308	-.0213	-.0243	.0113	.2411				
180.000	1.3993	.0141	.1451	-.3813	-.3292	-.1878	-.0435	-.0195	-.0258	.1129	.2850	.4519	-.0854	-.1589	-.2108
225.000		-.0270	.1544	-.4312	-.3433	-.2598	-.0714	-.0195	-.0225	.1652	.3173				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS12)

ALPHAL(7) =   6.321   BETAL (4) =   2.263

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0698	.6474	-.1551	-.3975	.0000	-.0646	-.0441	-.0210	.1239	.0000	.4783	.1288	.1249	-.3836
315.000		.2423	.6057	-.2414	-.0871	-.1832	.0075	-.0266	-.0126	.0358	.2839				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0589	-.1701	.1811	.0171	.3315	.3635
45.000	.0931	-.1790			.2493	.2359
90.000	.0070	-.0911	.1962	.0034	.0802	.0319
135.000	.1181	-.1833			.1912	.1669
180.000	-.0171	-.1254	.1182	.0230	.0755	.0185
225.000	-.1248	-.3111			.1811	.0000
270.000	-.2154	-.1621	.1152	-.0512	.0384	.0149
315.000	-.1634	-.2270			.1805	.2070

ALPHAL(7) =   6.302   BETAL (5) =   4.335

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3712	.2770	.4198	-.2924	-.1919	-.1344	-.0826	-.0991	-.0526	-.0288	.2647	.6256	.0636	-.0318	-.3314
45.000		.1573	.2368	-.3503	-.2808	-.2246	-.1788	-.1125	-.0882	-.0900	.2441				
90.000		.0673	.1165	.0000	-.3246	-.2891	-.0962	-.0437	.0000	-.0494	.2252		-.2501	-.2768	
135.000		.0346	.1021	-.3732	-.3062	-.1705	-.0227	-.0322	-.0327	.0226	.2285				
180.000	1.3712	-.0233	.1255	-.3820	-.3353	-.2017	-.0307	-.0272	-.0452	.1144	.2641	.4495	-.1653	-.2360	-.2693
225.000		-.0539	.1381	-.4325	-.3527	-.2708	-.0654	-.0272	-.0488	.1664	.2955				
270.000		.0583	.6505	-.1433	-.4178	.0000	-.0802	-.0645	-.0476	.1180	.0000	.4966	.1199	.1691	-.3890
315.000		.2302	.5980	-.2435	-.0916	-.1777	.0146	-.0414	-.0189	.0322	.2978				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0741	-.1829	.2160	.0308	.3483	.3572
45.000	.0803	-.1905			.2059	.1810
90.000	-.0249	-.1106	.2097	-.0084	.0768	.0341
135.000	.0599	-.1434			.1100	.0643
180.000	-.0032	-.1363	.1092	-.0063	.1189	.0709
225.000	-.1544	-.3203			.1465	.0000
270.000	-.2159	-.1709	.1118	-.0629	.0109	-.0263
315.000	-.1596	-.2205			.1632	.2123

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	976.0000 IN. XT
LREF	=	1297.0000 INCHES	YMRP =	.0000 IN. YT
BREF	=	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT
SCALE	=	.0300 SCALE		

PARAMETRIC DATA

MACH	=	.600	RN/FT = 2.250
ELV-IB	=	8.000	ELV-OB = .000
RUDDER	=	.000	SPDBRK = .000

ALPHAL(1) =   -6.278   BETAL (1) =   .048

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0370	-.0386	-.3405	-.9924	-.2439	-.2104	-.0868	-.0612	-.0608	-.0790	.0054	.2162	-.5171	-.3123	-.4701
45.000		-.0154	-.3014	-1.2099	-.2312	-.1681	-.1240	-.0995	-.0936	-.1197	-.0701				
90.000		.0262	-.2440	.0000	-.2353	-.3238	-.2629	-.2389	.0000	-.2041	-.0344		-.5983	-.6136	
135.000		.1835	-.1297	-1.2276	-.2022	-.1585	-.1427	-.1285	-.1078	-.1232	-.0095				
180.000	1.0370	.3691	.0356	-1.0132	-.1076	-.0954	-.0799	-.0563	-.0304	-.0403	.0292	.4641	-.5933	-.5428	-.5612
225.000		.3958	.1568	-.7676	-.0776	-.0684	-.0534	-.0254	.0019	-.0061	.1205				
270.000		.1266	-.0579	-.7641	-.1885	.0000	-.2379	-.1339	-.0959	-.1048	.0000	.6640	-.2103	-.0753	-.4830
315.000		-.0550	-.4469	-1.0631	-.4398	-.4341	-.0873	-.0725	-.0492	-.0547	.0351				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0604	-.1932	.1421	-.1909	.0131	-.1242
45.000	-.0970	-.1169			.0038	-.1032
90.000	-.1312	-.1204	.1342	-.1429	.0660	-.0757
135.000	-.0313	-.1382			.1931	.0059
180.000	.0919	-.2431	.5099	-.1649	.2725	.0168
225.000	-.2055	-.3424			.2676	.0000
270.000	-.2233	-.1876	.2637	-.1365	-.0394	-.0984
315.000	-.2477	-.2386			-.0119	-.1033

ALPHAL(2) =   -4.240   BETAL (1) =   -4.023

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0854	.0377	-.2923	-1.0116	-.2254	-.1680	-.0864	-.0650	-.0535	-.0586	.0414	.2039	-.4413	-.1839	-.3903
45.000		.0770	-.2253	-1.1677	-.2143	-.1488	-.1142	-.0958	-.0900	-.1030	.0094				
90.000		.1507	-.1355	.0000	-.1694	-.2088	-.1862	-.1809	.0000	-.1961	-.0343		-.5879	-.5991	
135.000		.2599	-.0506	-1.1465	-.1153	-.0672	-.0562	-.0433	-.0197	-.0286	.0689				
180.000	1.0854	.3395	.0107	-1.0539	-.0739	-.0419	-.0343	-.0142	.0167	.0231	.0974	.4813	-.5663	-.4974	-.5317
225.000		.3376	.0666	-.9756	-.1050	-.0510	-.0382	-.0195	.0197	.0340	.1716				
270.000		.1812	.0166	-.6984	-.2764	.0000	-.1770	-.1114	-.0803	-.0997	.0000	.7078	-.1305	.1153	-.3588
315.000		.0514	-.3602	-.9816	-.3232	-.3674	-.0776	-.0506	-.0384	-.0388	.0573				

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)

ALPHAL(2) = -4.240   BETAL (1) = -4.023

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0945	-.1924	-.0575	-.2695	-.0560	-.1454
45.000	-.0478	-.2171			.1089	-.0173
90.000	-.1284	-.1278	.1681	-.0692	.1772	.0032
135.000	.0190	-.0975			.2405	.0350
180.000	.0750	-.1131	.4001	-.0799	.1864	-.0221
225.000	-.1918	-.3500			.2074	.0000
270.000	-.2438	-.1751	.1628	-.1693	-.1157	-.1343
315.000	-.2584	-.2170			-.1191	-.1682

ALPHAL(2) = -4.170   BETAL (2) = .036

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0720	.0235	-.2974	-1.0690	-.2261	-.1753	-.0638	-.0506	-.0432	-.0558	.0179	.2479	-.4876	-.2682	-.4288
45.000		.0432	-.2589	-1.0894	-.2002	-.1296	-.0887	-.0647	-.0579	-.0712	.0080		-.5697	-.5913	
90.000		.0787	-.2067	.0000	-.1956	-.2139	-.1694	-.1391	.0000	-.1370	.0055				
135.000		.1827	-.1283	-1.2188	-.1763	-.1246	-.1048	-.0863	-.0623	-.0727	.0312	.4694	-.5539	-.5418	-.5219
180.000	1.0720	.3139	-.0218	-1.1193	-.1241	-.0946	-.0794	-.0550	-.0168	-.0207	.0540				
225.000		.3572	.0817	-.9821	-.1307	-.0804	-.0638	-.0335	-.0019	.0065	.1316				
270.000		.1985	.0334	-.6920	-.2824	.0000	-.1674	-.1068	-.0662	-.0786	.0000	.6622	-.1935	-.0578	-.4620
315.000		.0408	-.3570	-1.0283	-.3377	-.3967	-.0779	-.0569	-.0425	-.0430	.0364				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0776	-.1732	.0930	-.1524	.0582	-.0762
45.000	-.0533	-.0990			.0872	-.0453
90.000	-.0969	-.0711	.1386	-.0912	.1029	-.0493
135.000	-.0406	-.0914			.1662	-.0117
180.000	.0711	-.1899	.4598	-.1504	.2442	.0096
225.000	-.2021	-.3329			.2369	.0000
270.000	-.2295	-.1827	.2101	-.1152	-.0458	-.0945
315.000	-.2361	-.2341			-.0429	-.1054

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)

ALPHAL(2) =   -4.138   BETAL (3) =   4.121

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.0548	.0008	-.2939	-1.1443	-.2279	-.1671	-.0484	-.0406	-.0303	-.0430	.0177	.2488	-.5054	-.3185	-.4429
45.000		.0098	-.2905	-1.0636	-.1901	-.1074	-.0593	-.0406	-.0303	-.0494	.0112				
90.000		.0197	-.2587	.0000	-.1932	-.1957	-.1227	-.0878	.0000	-.0678	.0346		-.5550	-.5610	
135.000		.0996	-.2111	-1.2307	-.2294	-.1717	-.1477	-.1197	-.0927	-.1017	.0058				
180.000	1.0548	.2772	-.0493	-1.1699	-.1779	-.1483	-.1192	-.0878	-.0460	-.0519	.0167	.4813	-.5852	-.5793	-.5168
225.000		.3928	.1115	-.9257	-.1391	-.0901	-.0701	-.0371	-.0042	-.0012	.1008				
270.000		.2360	.0564	-.6550	-.2799	.0000	-.1423	-.0819	-.0479	-.0564	.0000	.6484	-.1663	.0851	-.4504
315.000		.0450	-.3252	-1.1056	-.3447	-.4033	-.0617	-.0470	-.0390	-.0465	.0271				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0190	-.1606	.2014	-.0898	.2564	.0499
45.000	.0346	-.1581			.1128	-.0608
90.000	-.0597	-.0187	.1738	-.0878	.0450	-.0844
135.000	-.0575	-.0897			.1040	-.0341
180.000	.0732	-.2730	.4556	-.2182	.1728	-.0276
225.000	-.1780	-.3333			.0759	.0000
270.000	-.2138	-.1714	.1586	-.0878	-.0283	-.1032
315.000	-.2214	-.2531			.0568	-.0037

ALPHAL(3) =   -.042   BETAL (1) =   -6.070

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.1077	.1777	-.1881	-1.1543	-.1795	-.0888	-.0446	-.0304	-.0151	-.0156	.0767	.2720	-.4156	-.3088	-.3999
45.000		.2094	-.1187	-1.2007	-.1516	-.0667	-.0370	-.0242	-.0186	-.0300	.0813				
90.000		.2421	-.0595	.0000	-.1006	-.0499	-.0193	-.0100	.0000	.0008	.0854		-.5637	-.5663	
135.000		.2401	-.0717	-1.1482	-.0922	-.0268	-.0086	-.0004	.0265	.0532	.1351				
180.000	1.1077	.2227	-.1023	-1.1008	-.0885	-.0305	-.0137	-.0024	.0372	.0788	.1423	.4329	-.4544	-.4315	-.4442
225.000		.2385	-.0937	-1.1498	-.1675	-.0368	-.0198	-.0004	.0424	.0839	.1961				
270.000		.2503	.0947	-.7437	-.4662	.0000	-.0502	-.0247	.0085	-.0001	.0000	.6643	-.0713	.1779	-.3094
315.000		.1986	-.1983	-1.2130	-.2573	-.1359	-.0598	-.0328	-.0151	-.0165	.0635				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0770	-.2499	.0224	-.2795	.0490	-.0843
45.000	.0283	-.2249			.2682	.0640
90.000	-.0185	-.0303	.1859	-.0212	.2558	.0415
135.000	.0846	-.0501			.2468	.0353
180.000	.0545	-.0028	.3625	-.0624	.0994	-.0666

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)

ALPHAL(3) =   -.042   BETAL (1) =   -6.070

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1500	-.3871			.2378	.0000
270.000	-.2228	-.1659	.1934	-.1687	-.1118	-.1401
315.000	-.2462	-.2032			-.1348	-.1523

ALPHAL(3) =   -.035   BETAL (2) =   -4.042

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1070	.1640	-.1903	-1.1412	-.1838	-.0906	-.0465	-.0324	-.0164	-.0187	.0651	.2787	-.4466	-.2516	-.3913
45.000		.1802	-.1407	-1.1770	-.1557	-.0719	-.0370	-.0254	-.0199	-.0232	.0824		-.5495	-.5669	
90.000		.2010	-.0972	.0000	-.1198	-.0630	-.0314	-.0189	.0000	-.0065	.0794				
135.000		.2091	-.1002	-1.1627	-.1047	-.0422	-.0254	-.0164	.0128	.0372	.1144				
180.000	1.1070	.2167	-.1098	-1.1309	-.1047	-.0474	-.0324	-.0149	.0215	.0590	.1210	.4292	-.4840	-.4717	-.4430
225.000		.2425	-.0926	-1.1929	-.1896	-.0515	-.0350	-.0159	.0265	.0621	.1687				
270.000		.2576	.0982	-.8091	-.4859	.0000	-.0565	-.0309	.0027	.0082	.0000	.6212	-.1349	.0504	-.3872
315.000		.1994	-.1989	-1.2435	-.2802	-.1518	-.0676	-.0430	-.0182	-.0187	.0725				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0606	-.2175	.0546	-.2227	.0952	-.0492
45.000	.0136	-.1930			.2366	.0586
90.000	-.0181	-.0156	.2080	-.0211	.2281	.0270
135.000	.0438	-.0405			.2221	.0128
180.000	.0302	-.0213	.3460	-.0663	.0992	-.0638
225.000	-.1592	-.3252			.2000	.0000
270.000	-.2008	-.1707	.1589	-.1610	-.1009	-.1430
315.000	-.2243	-.2029			-.1114	-.1323

ALPHAL(3) =   -.041   BETAL (3) =   .008

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1010	.1380	-.2068	-1.1941	-.2026	-.0980	-.0493	-.0352	-.0182	-.0255	.0512	.2944	-.4845	-.3761	-.3899
45.000		.1263	-.1927	-1.1010	-.1687	-.0756	-.0423	-.0227	-.0162	-.0194	.0684		-.5479	-.5535	
90.000		.1339	-.1643	.0000	-.1370	-.0824	-.0458	-.0342	.0000	-.0138	.0618				
135.000		.1577	-.1511	-1.1724	-.1391	-.0694	-.0493	-.0423	-.0118	.0014	.0857				
180.000	1.1010	.1967	-.1243	-1.1995	-.1407	-.0793	-.0613	-.0408	-.0062	.0202	.0862	.4396	-.5310	-.5044	-.4696
225.000		.2590	-.0732	-1.2271	-.2093	-.0761	-.0568	-.0357	.0029	.0380	.1187				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS13)

ALPHAL(3) = -.041   BETAL (3) = .008

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2767	.1172	-.7969	-.5022	.0000	-.0643	-.0387	-.0021	.0050	.0000	.4790	-.1925	-.0866	-.4047
315.000		.1987	-.1856	-1.3032	-.3056	-.1793	-.0734	-.0382	-.0189	-.0245	.0392				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0840	-.1691	.1360	-.1062	.1807	.0018
45.000	.0223	-.1284			.2064	.0284
90.000	-.0191	.0125	.2053	-.0243	.1692	-.0148
135.000	.0036	-.0350			.1491	-.0218
180.000	.0276	-.0788	.3300	-.0992	.1295	-.0386
225.000	-.1592	-.3247			.1998	.0000
270.000	-.2219	-.1885	.1717	-.1007	-.0374	-.0701
315.000	-.2245	-.2302			-.0123	-.0600

ALPHAL(3) = -.008   BETAL (4) = 4.102

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0830	.1155	-.2108	-1.2421	-.2227	-.1016	-.0532	-.0449	-.0231	-.0317	.0548	.3886	-.5109	-.4559	-.3909
45.000		.0763	-.2340	-1.0886	-.1803	-.0863	-.0444	-.0265	-.0211	-.0218	.0662				
90.000		.0749	-.2172	.0000	-.1523	-.0817	-.0458	-.0309	.0000	-.0083	.0498		-.5203	-.5309	
135.000		.0927	-.2003	-1.1365	-.1650	-.0960	-.0709	-.0446	-.0213	-.0098	.0647				
180.000	1.0830	.1611	-.1360	-1.2483	-.1814	-.1199	-.0935	-.0662	-.0257	-.0034	.0518	.4564	-.5034	-.5180	-.4937
225.000		.2717	-.0544	-1.2370	-.2201	-.0873	-.0743	-.0466	-.0068	.0300	.0915				
270.000		.3059	.1451	-.7664	-.5096	.0000	-.0714	-.0437	-.0048	.0077	.0000	.3916	-.1993	-.1175	-.3780
315.000		.2162	-.1543	-1.3151	-.3061	-.1785	-.0675	-.0353	-.0138	-.0171	.0612				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0331	-.0962	.2771	-.0056	.2698	.0697
45.000	.0195	-.0539			.1431	-.0067
90.000	-.0122	.0129	.2693	-.0454	.0992	-.0407
135.000	-.0253	-.0345			.0864	-.0585
180.000	.0603	-.1620	.3430	-.1619	.1406	-.0282
225.000	-.1594	-.2921			.1091	.0000
270.000	-.1921	-.1547	.1286	-.0759	-.0289	-.1048
315.000	-.2069	-.2165			.1544	.0677

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)

ALPHAL(3) =   -.006   BETAL (5) =   6.132

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.0778	.1033	-.2191	-1.2785	-.2293	-.1147	-.0578	-.0440	-.0297	-.0348	.0539	.4160	-.5290	-.4832	-.3978
45.000		.0561	-.2588	-1.0718	-.1873	-.0938	-.0499	-.0352	-.0263	-.0248	.0663		-.5300	-.5555	
90.000		.0526	-.2424	.0000	-.1531	-.0810	-.0445	-.0312	.0000	-.0099	.0419				
135.000		.0700	-.2370	-1.1385	-.1889	-.1106	-.0805	-.0588	-.0208	-.0138	.0609				
180.000	1.0778	.1539	-.1580	-1.2783	-.2017	-.1418	-.1095	-.0795	-.0308	-.0054	.0350	.4459	-.5325	-.5465	-.4964
225.000		.2786	-.0457	-1.2312	-.2247	-.0948	-.0800	-.0573	-.0119	.0200	.0753				
270.000		.3208	.1624	-.7520	-.5136	.0000	-.0731	-.0489	-.0109	.0056	.0000	.3562	-.2265	-.1426	-.4058
315.000		.2190	-.1386	-1.3136	-.3131	-.1706	-.0686	-.0327	-.0114	-.0233	.0611				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0304	-.0584	.3766	.0221	.3098	.0855
45.000	.0642	-.0507			.1843	.0195
90.000	.0046	-.0005	.3059	-.0901	.1500	-.0168
135.000	-.0076	-.0487			.0602	-.0674
180.000	.0734	-.1584	.2955	-.1668	.0622	-.0624
225.000	-.1553	-.3384			.0845	.0000
270.000	-.2113	-.1653	.1363	-.0743	-.0560	-.1695
315.000	-.1995	-.2328			.2910	.1438

ALPHAL(4) =   4.194   BETAL (1) =   -4.025

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.0855	.2887	-.0748	-1.1720	-.1480	-.0542	-.0103	-.0049	.0124	.0077	.1016	.3742	-.4752	-.3890	-.3777
45.000		.2458	-.0867	-.9463	-.1347	-.0486	-.0163	-.0044	.0040	.0087	.1261		-.4952	-.5124	
90.000		.1770	-.1107	.0000	-.1311	-.0937	-.0593	-.0563	.0000	.0127	.1226				
135.000		.1242	-.1705	-1.0951	-.1337	-.0609	-.0395	-.0296	.0082	.0572	.1311				
0.000	1.0855	.0988	-.2124	-.9782	-.1306	-.0660	-.0345	-.0192	.0302	.0801	.1111	.3872	-.4269	-.4398	-.3672
225.000		.1187	-.2428	-1.0233	-.2275	-.1367	-.0494	-.0237	.0322	.0971	.1411				
270.000		.2314	.0733	-.7411	-.4586	.0000	-.0637	-.0266	.0257	.0507	.0000	.4295	-.1464	.0225	-.2748
315.000		.2997	-.0284	-1.2065	-.2157	-.0805	-.0158	-.0069	.0092	.0107	.0738				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0287	-.1820	.1760	-.1383	.2116	.0121
45.000	.0454	-.1348			.2932	.0776
90.000	.0116	.0180	.3035	-.0271	.2157	.0362
135.000	.0529	-.0205			.1447	-.0195
180.000	.0529	-.0256	.2546	-.0898	.0678	-.0869

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)

ALPHAL(4) =   4.194   BETAL (1) =   -4.025

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1302	-.3387			.1916	.0000
270.000	-.1841	-.1652	.1459	-.1373	-.0738	-.1039
315.000	-.2118	-.1903			-.0639	-.0964

ALPHAL(4) =   4.183   BETAL (2) =   .022

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0762	.2582	-.0977	-1.2300	-.1723	-.0553	-.0323	-.0209	-.0083	-.0164	.0921	.4093	-.5060	-.4417	-.4043
45.000		.1694	-.1429	-1.1335	-.1687	-.0741	-.0487	-.0311	-.0247	-.0194	.1037		-.4915	-.4974	
90.000		.1093	-.1699	.0000	-.1527	-.1132	-.0746	-.0579	.0000	.0032	.0956				
135.000		.0918	-.2094	-1.0392	-.1485	-.0684	-.0442	-.0331	.0032	.0329	.0921				
180.000	1.0762	.0812	-.2139	-1.0759	-.1568	-.0875	-.0522	-.0321	.0037	.0480	.0861	.3469	-.4641	-.4411	-.3864
225.000		.1163	-.2330	-1.0960	-.2640	-.1662	-.0691	-.0371	.0183	.0740	.1147				
270.000		.2511	.0866	-.7408	-.5115	.0000	-.0706	-.0371	.0118	.0364	.0000	.3838	-.1638	-.0360	-.3271
315.000		.3178	-.0134	-1.2324	-.2300	-.0860	-.0239	-.0168	-.0023	-.0043	.0691				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0290	-.1257	.2696	-.0347	.2810	.0631
45.000	.0163	-.0893			.2484	.0429
90.000	.0048	.0293	.3160	-.0426	.1139	-.0301
135.000	.0668	-.0523			.1247	-.0303
180.000	.0452	-.0339	.3106	-.0965	.0784	-.0662
225.000	-.1396	-.3487			.1922	.0000
270.000	-.2012	-.1797	.1673	-.0723	.0049	-.0432
315.000	-.2161	-.2181			.0833	.0072

ALPHAL(4) =   4.165   BETAL (3) =   4.102

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.0579	.2329	-.1089	-1.2669	-.1947	-.0951	-.0518	-.0449	-.0354	-.0344	.0654	.4606	-.5266	-.4408	-.4474
45.000		.0995	-.2180	-1.0996	-.2055	-.1147	-.0834	-.0721	-.0562	-.0494	.0820				
90.000		.0520	-.2375	.0000	-.1609	-.1178	-.0755	-.0607	.0000	-.0013	.0790		-.4945	-.5037	
135.000		.0520	-.2506	-1.0300	-.1547	-.0827	-.0483	-.0403	-.0068	.0252	.0684				
180.000	1.0579	.0550	-.2355	-1.1220	-.1835	-.1204	-.0671	-.0532	-.0083	.0428	.0684	.3553	-.4444	-.4705	-.4157
225.000		.1209	-.2210	-1.0953	-.2962	-.1796	-.0805	-.0463	.0132	.0609	.1052				

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA61 LVAP(ELHL SEALED) SRM BOOSTER   (RETS13)

ALPHAL(4) = 4.165   BETAL (3) = 4.102

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2759	.1178	-.6815	-.5189	.0000	-.0755	-.0428	.0092	.0252	.0000	.3618	-.1830	-.1252	-.3413
315.000		.3428	.0109	-1.2006	-.2317	-.0874	-.0206	-.0205	.0042	-.0111	.0628				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0472	-.1117	.4392	-.0019	.3641	.1111
45.000	-.0020	-.0611			.1584	-.0160
90.000	-.0055	.0225	.3337	-.0705	.0558	-.0797
135.000	.0333	-.0560			.1016	-.0480
180.000	.0441	-.0813	.2537	-.1247	.0737	-.0620
225.000	-.1432	-.3142			.1500	.0000
270.000	-.1912	-.1497	.2124	-.0228	.0349	-.0942
315.000	-.2180	-.2020			.2551	.1139

ALPHAL(5) = 8.381   BETAL (1) = .049

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	.9916	.3839	.0247	-1.0307	-.1271	-.0510	-.0209	-.0139	-.0021	-.0032	.1039	.4977	-.5394	-.5048	-.4202
45.000		.1738	-.1382	-1.1289	-.2007	-.1346	-.0998	-.0902	-.0802	-.0528	.0838		-.4618	-.4647	
90.000		.0132	-.2470	.0000	-.2177	-.2909	-.2194	-.1921	.0000	-.0172	.0104	.0365			
135.000		-.0213	-.2806	-1.0808	-.1775	-.1191	-.0735	-.0569	-.0152	.0124	.0853	.3334	-.3937	-.3782	-.3997
180.000	.9916	-.0298	-.2891	-.9097	-.1662	-.1408	-.0402	-.0295	.0124	.0204	.0903	.1139			
225.000		-.0588	-.4039	-.9932	-.3378	-.3461	-.0487	-.0414	.0204	.0481	.1139	.4561	-.3306	.4632	-.3972
270.000		.1298	-.0681	-.6150	-.4926	.0000	-.1509	-.1250	-.0358	.0481	.0000				
315.000		.3984	.1400	-.8685	-.1248	-.0720	.0044	.0063	.0305	.0274	.1266				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0475	-.1273	.4353	.0010	.3891	.1209
45.000	.0360	-.1129			.2661	.0447
90.000	-.0135	-.0033	.3673	-.0864	.0541	-.0797
135.000	.0374	-.0624			.0352	-.1014
180.000	.0785	-.1046	.3286	-.1305	.1209	-.0577
225.000	-.1113	-.2492			.1125	.0000
270.000	-.1942	-.1511	.0774	-.0715	.0031	-.0894
315.000	-.2044	-.2209			.2155	.0558

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS13)

ALPHAL(6) =   10.492   BETAL (1) =   .093

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	.9184	.4420	.0858	-.8351	-.1043	-.0436	-.0110	-.0115	.0060	-.0037	.0973	.5104	-.5677	-.4654	-.4561
45.000		.1597	-.1343	-1.1962	-.2253	-.1674	-.1464	-.1390	-.1243	-.0803	.0596			-.4635	-.4626
90.000		-.0674	-.2933	.0000	-.2795	-.4054	-.3170	-.2757	.0000	-.0304	.0983				
135.000		-.0846	-.3298	-1.0077	-.2066	-.1548	-.1088	-.0817	-.0684	-.1001	.0146				
180.000	.9184	-.0886	-.3268	-.8586	-.1762	-.1634	-.0496	-.0361	.0027	.0720	.0854	.3597	-.3632	-.3720	-.4165
225.000		-.1659	-.4838	-.9443	-.4298	-.3572	-.0526	-.0474	.0181	.0918	.1206				
270.000		.0228	-.1935	-.6700	-.5810	.0000	-.2124	-.1640	-.0610	.0443	.0000	.5059	-.3439	.5336	-.4066
315.000		.4218	.2098	-.6299	-.0625	-.0482	.0183	.0281	.0472	.0393	.1344				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.1217	-.1567	.5420	-.0021	.4475	.1401
45.000	.0519	-.1435			.2599	.0326
90.000	-.0313	-.0145	.3667	-.1078	.0209	-.1067
135.000	.0241	-.0612			.0145	-.1177
180.000	.0744	-.1308	.3060	-.1431	.1254	-.0588
225.000	-.1440	-.2503			.1161	.0000
270.000	-.1918	-.1515	.0498	-.0520	.0012	-.1083
315.000	-.1847	-.2340			.2780	.0819

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS14) (17 OCT 75)

PARAMETRIC DATA

MACH =	1.400	RN/FT = 2.250
ELV-IB =	8.000	ELV-OB = -4.000
RUDDER =	.000	SPDBRK = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT	
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT	
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT	
SCALE = .0300 SCALE		

$ALPHAL(1) = -6.851$ $BETAL(1) = -3.920$

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI \ X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.4602	.0873	.1737	-.3656	-.3209	-.2819	-.2193	-.1667	-.1428	-.1467	.1139	.1961	-.0157	-.0945	-.3981
45.000		.1670	.1972	-.3668	-.2908	-.2335	-.2119	-.2702	-.2488	-.1983	-.0129		-.1324	-.1054	
90.000		.2435	.2905	-.3364	-.2442	-.2396	-.2036	-.3458	-.4035	-.2908	-.0290	.1064			
135.000		.3468	.4215	-.2795	-.1856	-.0850	.0658	-.0637	-.1428	-.1764	.2935	.6103	.1765	.0432	-.4357
180.000	1.4602	.3838	.5091	-.2617	-.1531	-.0163	.1768	-.0042	-.0722	-.0962	.4295				
225.000		.2760	.6081	-.2424	-.1185	-.1227	.1907	.0009	-.0245	-.0578	.3460	.9063	.4912	.4939	-.5220
270.000		.0861	.6202	-.1954	-.0967	-.2844	-.2812	-.0926	-.0845	-.0596	.3092				
315.000		.0279	.1493	-.4316	-.4936	-.3753	-.2815	-.1193	-.0668	-.0725					

PHI \ X/LS	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0666	-.2825	-.0307	-.1970	-.0664	-.1357
45.000	-.0774	-.2482			-.0640	-.0584
90.000	-.2504	-.2513	.1541	-.0631	.0520	.1196
135.000	.1046	-.3405			.2939	.4088
180.000	.1254	-.3245	.0526	.2062	.4829	.3743
225.000	-.2050	-.3328			.1761	.0000
270.000	-.2733	-.2117	-.0813	-.1812	-.1420	-.1161
315.000	-.2117	-.2301			-.0316	-.0238

$ALPHAL(1) = -6.807$ $BETAL(2) = -1.850$

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI \ X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.4465	.0588	.1556	-.3860	-.3310	-.2873	-.1895	-.1299	-.1356	-.1113	.1455	.2631	-.0164	-.0924	-.3804
45.000		.1290	.1676	-.3758	-.2996	-.2382	-.2128	-.2283	-.1997	-.2748	.0145		-.1554	-.1244	
90.000		.1926	.2433	-.3511	-.2717	-.2606	-.2328	-.3595	-.3362	-.1913	-.1699	.0647			
135.000		.2999	.3864	-.2972	-.2087	-.0885	.0058	-.1218	-.1204	-.1354	.2272	.6201	.0686	-.0674	-.4600
180.000	1.4465	.3554	.5000	-.2671	-.1552	.0196	.1322	-.0467	-.0582	-.0681	.3666				
225.000		.2637	.6142	-.2437	-.1239	.0415	.1549	-.0240	-.0930	-.0678	.3447	.8320	.3945	.4395	-.4877
270.000		.0724	.6230	-.1908	-.0882	-.3374	-.2939	-.0783	-.0930	-.0678	.3041				
315.000		-.0012	.1323	-.4440	-.5169	-.3810	-.3061	-.1141	-.0642	-.0621					

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS14)

ALPHAL(1) = -6.807   BETAL (2) = -1.850

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0565	-.2744	.0280	-.2007	-.0135	-.1049
45.000	-.0704	-.2430			-.0682	-.0861
90.000	-.2200	-.2274	.0647	-.0643	.0166	.0933
135.000	.0613	-.3254			.2967	.3931
180.000	.0770	-.3503	.0790	.1653	.4356	.3588
225.000	-.2224	-.2768			.0957	.0000
270.000	-.2707	-.2027	-.0849	-.1769	-.1491	-.1204
315.000	-.1917	-.2329			-.0398	-.0738

ALPHAL(1) = -6.748   BETAL (3) =   .240

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4243	.0307	.1347	-.4078	-.3424	-.2908	-.1610	-.0913	-.1196	-.0994	.1814	.3209	-.0120	-.0852	-.3569
45.000		.0928	.1377	-.3876	-.3077	-.2417	-.2018	-.1500	-.1479	-.2759	.0635				
90.000		.1441	.1971	-.3684	-.2970	-.2819	-.2509	-.3494	-.2720	-.2408	.0224		-.1980	-.1100	
135.000		.2493	.3346	-.3123	-.2319	-.1029	-.0646	-.1723	-.2411	-.2108	.0017				
180.000	1.4243	.3255	.4865	-.2724	-.1605	.0654	.0822	-.0708	-.1702	-.1777	.1322	.5863	.0224	-.1365	-.4513
225.000		.2520	.6140	-.2432	-.1149	.1274	.1114	-.0187	-.1003	-.0829	.3128				
270.000		.0551	.6212	-.1861	-.0866	-.2963	-.3090	-.0762	-.0886	-.0724	.3212	.7316	.2986	.3870	-.4290
315.000		-.0296	.1239	-.4511	-.5313	-.3822	-.3277	-.1116	-.0640	-.0649	.2875				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0436	-.2856	.0694	-.2395	.1860	.0402
45.000	-.0593	-.2610			-.0487	-.1056
90.000	-.1645	-.1950	.0435	-.0677	-.0248	.0142
135.000	-.0051	-.2668			.2146	.3125
180.000	-.0205	-.3664	.0986	.0527	.3500	.3041
225.000	-.1996	-.2887			.0080	.0000
270.000	-.2570	-.2386	-.0880	-.2073	-.1706	-.1507
315.000	-.2076	-.2917			-.0698	-.0440

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS14)

ALPHAL(1) = -6.708   BETAL (4) = 2.327

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4041	.0032	.1250	-.4053	-.3514	-.2950	-.1105	-.0801	-.1001	-.0885	.1967	.4845	-.0800	-.1206	-.3900
45.000		.0600	.1145	-.3915	-.3122	-.2342	-.1733	-.0816	-.1218	-.2193	.1053				
90.000		.1004	.1527	-.3795	-.3186	-.2849	-.2628	-.3069	-.2384	-.2047	.0709		-.2488	-.2034	
135.000		.2029	.2866	-.3235	-.2569	-.1140	-.1367	-.2200	-.2903	-.2175	.0394				
180.000	1.4041	.3028	.4710	-.2729	-.1655	.0944	.0288	-.0816	-.2208	-.1226	.0610	.4496	-.0592	-.1242	-.4734
225.000		.2517	.6099	-.2401	-.1048	.1665	.0683	-.0177	-.1190	-.0513	.2509				
270.000		.0603	.6298	-.1790	-.0799	-.2711	-.3241	-.0888	-.1052	-.0393	.2803	.5869	.2539	.3147	-.4346
315.000		-.0431	.1232	-.4505	-.5340	-.3976	-.3447	-.0956	-.0687	-.0579	.2603				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0010	-.2879	.0367	-.2139	.2993	.2724
45.000	-.0318	-.2799			-.0229	-.0661
90.000	-.1477	-.1562	.0367	-.0563	-.0443	-.0563
135.000	-.0703	-.2271			.1902	.3050
180.000	-.0620	-.3907	.1830	-.0858	.3306	.2789
225.000	-.2081	-.2772			-.0333	.0000
270.000	-.2581	-.2357	-.1197	-.2002	-.1692	-.1503
315.000	-.2124	-.3042			-.0035	.0697

ALPHAL(1) = -6.687   BETAL (5) = 4.406

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3794	-.0263	.1085	-.4086	-.3628	-.2922	-.0951	-.0788	-.0805	-.0788	.2014	.5391	-.1343	-.1518	-.3910
45.000		.0258	.0913	-.3984	-.3214	-.2299	-.1451	-.0657	-.1287	-.1865	.1534				
90.000		.0558	.1160	-.3945	-.3383	-.2895	-.2673	-.2498	-.2245	-.1673	.1138		-.2530	-.1849	
135.000		.1572	.2345	-.3435	-.2864	-.1173	-.1977	-.2774	-.3317	-.2045	.0295				
180.000	1.3794	.2842	.4457	-.2812	-.1750	.0964	-.0353	-.1046	-.2675	-.1304	.0037	.6228	-.1171	-.2566	-.4991
225.000		.2851	.5922	-.2449	-.0973	.2106	.0358	-.0175	-.1382	.0487	.2068				
270.000		.1340	.6232	-.1759	-.0853	-.2492	-.3396	-.0660	-.1124	-.0089	.2566	.5418	.2763	.2899	-.4735
315.000		-.0296	.1130	-.4540	-.5399	-.3976	-.2397	-.0841	-.0701	-.0509	.2411				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0126	-.2904	.0609	-.1828	.3039	.3630
45.000	-.0207	-.2817			.0343	.0218
90.000	-.1292	-.1554	.0555	-.0465	-.0086	-.0626
135.000	-.1183	-.1982			.1521	.1653
180.000	-.0878	-.3122	.1828	-.1512	.1479	.0725

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(1) =   -6.687   BETAL (5) =   4.406

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2910	-.2403			-.0772	.0000
270.000	-.2927	-.2338	-.1354	-.1914	-.1679	-.1757
315.000	-.2400	-.2962			.0549	.1160

ALPHAL(2) =   -4.622   BETAL (1) =   -6.056

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4889	.1740	.2458	-.3512	-.2873	-.2474	-.2244	-.1215	-.0914	-.0951	.1285	.1655	-.1366	-.0457	-.2808
45.000		.2521	.2855	-.3343	-.2499	-.1830	-.2000	-.1970	-.1833	-.1553	.1070				
90.000		.3315	.3775	-.3025	-.1971	-.1738	-.1265	-.2095	-.2765	-.2137	.0360		-.0945	-.0352	
135.000		.3859	.4421	-.2667	-.1725	-.0511	.1441	.0313	-.0760	-.0969	.2630				
180.000	1.4889	.3658	.4719	-.2716	-.1814	-.1428	.2239	.0426	-.0164	-.0769	.4178	.6275	.2089	.1390	-.3593
225.000		.2600	.5611	-.2631	-.1560	-.2907	.2131	.0301	.0309	-.1044	.5289				
270.000		.1400	.6636	-.1805	-.2124	-.3266	-.2795	-.1316	-.0454	-.0715	.3465	.9841	.5745	.4980	-.5110
315.000		.1121	.2051	-.3840	-.3984	-.3715	-.2167	-.1351	-.0311	-.0574	.2868				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0671	-.2814	-.1234	-.2194	-.0889	-.0891
45.000	-.0274	-.3374			.0596	.1205
90.000	-.2741	-.3186	-.0154	-.0719	.1500	.2181
135.000	.1932	-.3632			.2318	.3710
180.000	.1969	-.3245	.0572	.1660	.3876	.3568
225.000	-.1625	-.3122			.2692	.0000
270.000	-.2747	-.2240	-.0731	-.1653	-.1141	-.1108
315.000	-.2329	-.2670			-.0850	-.1201

ALPHAL(2) =   -4.590   BETAL (2) =   -3.986

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4757	.1319	.2231	-.3504	-.2979	-.2518	-.2099	-.0856	-.0969	-.0923	.1329	.1854	-.1025	-.0122	-.2917
45.000		.2069	.2496	-.3462	-.2611	-.1889	-.1858	-.1775	-.1510	-.1504	.0903				
90.000		.2704	.3168	-.3191	-.2224	-.1954	-.1367	-.2367	-.2394	-.2104	.0492		-.1137	-.0585	
135.000		.3267	.4002	-.2776	-.1948	-.0812	.0998	-.0186	-.1051	-.1324	.2525				
180.000	1.4757	.3279	.4571	-.2739	-.1880	-.1435	.1873	.0040	-.0608	-.0920	.3895	.6405	.1812	.0773	-.3944
225.000		.2415	.5591	-.2611	-.1613	-.2647	.1807	-.0100	-.0086	-.0860	.4860				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(2) =   -4.590   BETAL (2) =   -3.986

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.1126	.6696	-.1665	-.2031	-.3203	-.2885	-.1112	-.0644	-.0557	.3667	.9294	.5405	.5002	-.4872
315.000		.0759	.2517	-.3899	-.4166	-.3849	-.2150	-.1165	-.0365	-.0632	.2848				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1098	-.2533	-.0729	-.1715	-.0687	-.0973
45.000	-.0025	-.2938			.0605	.1010
90.000	-.2338	-.3024	-.0393	-.0616	.1204	.1749
135.000	.1556	-.3598			.2029	.3662
180.000	.1688	-.3347	.0388	.1591	.3911	.3608
225.000	-.1747	-.2736			.1716	.0000
270.000	-.2591	-.2153	-.0967	-.1718	-.1259	-.1048
315.000	-.2054	-.2595			-.0839	-.1291

ALPHAL(2) =   -4.520   BETAL (3) =   .156

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4416	.0676	.1879	-.3741	-.3201	-.2704	-.1237	-.0451	-.0820	-.0830	.1822	.3176	-.0342	-.0435	-.3048
45.000		.1286	.1837	-.3641	-.2821	-.2026	-.1492	-.0838	-.1014	-.1244	.1189				
90.000		.1741	.2225	-.3506	-.2643	-.2320	-.1629	-.2364	-.1778	-.1868	.1231		-.1812	-.1128	
135.000		.2345	.3230	-.3097	-.2333	-.1323	-.0094	-.1177	-.1787	-.1613	.1753				
180.000	1.4416	.2718	.4367	-.2806	-.1922	-.0623	.0872	-.0710	-.1517	-.1631	.2044	.6796	-.0010	-.1580	-.4245
225.000		.2129	.5631	-.2597	-.1679	-.0789	.1077	-.0389	-.1070	-.0896	.3364				
270.000		.0775	.6843	-.1553	-.1918	-.3527	-.3122	-.0871	-.0944	-.0782	.3016	.7851	.3022	.3761	-.4263
315.000		.0227	.2300	-.4030	-.4543	-.3896	-.2001	-.1151	-.0596	-.0614	.2730				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0559	-.3235	.1357	-.2408	.0729	.0015
45.000	-.0266	-.2470			.0045	-.0211
90.000	-.1186	-.2117	.0161	-.0455	.0572	.0655
135.000	.0505	-.3032			.1866	.3042
180.000	.0410	-.3287	.0455	.0988	.2998	.2508
225.000	-.1831	-.3075			.0536	.0000
270.000	-.2473	-.2224	-.0807	-.1858	-.1503	-.1252
315.000	-.2107	-.2796			-.0652	-.0166

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS14)

ALPHAL(2) = -4.472   BETAL (4) = 4.310

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3937	.0060	.1522	-.3951	-.3463	-.2934	-.0810	-.0536	-.0605	-.0587	.1949	.3512	-.1653	-.0908	-.3460
45.000		.0566	.1332	-.3851	-.3051	-.2098	-.0867	-.0489	-.0885	-.1020	.1994				
90.000		.0768	.1401	-.3845	-.3075	-.2448	-.1808	-.1641	-.1620	-.1540	.1390		-.2648	-.2582	
135.000		.1350	.2290	-.3435	-.2879	-.1391	-.1469	-.2180	-.2393	-.1432	.1417				
180.000	1.3937	.2109	.3944	-.2977	-.2181	.0447	-.0331	-.1150	-.2414	-.0455	.0495	.6414	-.1206	-.2521	-.4621
225.000		.1868	.5629	-.2630	-.1748	.1805	-.0069	-.0262	-.1480	.0615	.2258				
270.000		.0678	.6915	-.1333	-.2070	-.2304	-.3524	-.0575	-.1092	.0104	.2556	.5729	.3005	.3412	-.4467
315.000		-.0079	.2103	-.4133	-.4677	-.3958	-.1743	-.0989	-.0707	-.0440	.2145				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0539	-.2863	.0271	-.1465	.2420	.3115
45.000	.0402	-.3051			.1584	.0919
90.000	-.0995	-.1661	.0367	-.0477	.0367	-.0239
135.000	-.0834	-.2006			.1241	.1855
180.000	-.0514	-.2765	.1176	-.0483	.1549	.0875
225.000	-.2774	-.2331			-.0653	.0000
270.000	-.2694	-.2273	-.1131	-.1835	-.1608	-.1665
315.000	-.2325	-.2808			-.0075	.0418

ALPHAL(2) = -4.424   BETAL (5) = 6.390

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3696	-.0211	.1351	-.3950	-.3484	-.2850	-.0803	-.0597	-.0553	-.0598	.2014	.3333	-.1645	-.0491	-.3396
45.000		.0207	.1143	-.3913	-.3101	-.2086	-.0457	-.0496	-.0829	-.1000	.2296				
90.000		.0373	.1107	-.3940	-.3202	-.2408	-.1815	-.1398	-.1630	-.1450	.1745		-.2639	-.2664	
135.000		.1002	.1860	-.3551	-.3079	-.1317	-.2142	-.2436	-.2527	-.0820	.1088				
180.000	1.3696	.2043	.3726	-.3021	-.2239	.0620	-.0972	-.1207	-.2605	-.0040	.0713	.5671	-.2302	-.3601	-.4457
225.000		.2802	.5481	-.2650	-.1801	.2211	-.0511	.0456	-.1666	.0500	.2173				
270.000		.1748	.7019	-.1240	-.2227	-.2623	-.3681	-.0457	-.1060	.0035	.2551	.5150	.2248	.1841	-.4725
315.000		.0352	.2064	-.4119	-.4643	-.3859	-.1794	-.0788	-.0604	-.0415	.2263				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0612	-.2674	.0705	-.0286	.2662	.2868
45.000	.0311	-.2775			.3424	.3043
90.000	-.0572	-.1750	.0678	-.0220	.0964	.0577
135.000	-.1037	-.1553			.0625	.0247
180.000	-.1015	-.2032	.1133	-.0887	.0639	.0190

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(2) =   -4.424   BETAL (5) =   6.390

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2699	-.2388			-.0640	.0000
270.000	-.2729	-.2259	-.1187	-.1770	-.1613	-.1721
315.000	-.2250	-.2717			.0211	.0615

ALPHAL(3) =   -2.371   BETAL (1) =   -6.107

SECTION (1)SRM BOOSTER   .   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4892	.2089	.2947	-.3376	-.2683	-.2271	-.1821	-.0682	-.0676	-.0740	.1512	.2686	-.1228	.1515	-.2233
45.000		.2851	.3266	-.3225	-.2305	-.1502	-.1741	-.0899	-.0941	-.1136	.2034				
90.000		.3378	.3845	-.2996	-.1936	-.1290	-.0649	-.1179	-.1423	-.1335	.1347		-.0704	-.0138	
135.000		.3504	.4025	-.2794	-.1923	-.0859	.1428	.0565	-.0530	-.0599	.3599				
180.000	1.4892	.3020	.4115	-.2908	-.2166	-.1877	.2175	.0553	-.0146	-.0740	.4691	.0236	.2051	.1485	-.3067
225.000		.2173	.4931	-.2920	-.2151	-.3095	.1875	.0244	.0140	-.1085	.5568				
270.000		.1568	.6976	-.1683	-.3729	-.3501	-.3137	-.1982	-.0419	-.0671	.3280	1.0264	.6272	.5059	-.4771
315.000		.1463	.3507	-.3526	-.3317	-.3295	-.1914	-.1066	-.0146	-.0536	.2746				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0508	-.3025	-.1860	-.2876	-.0555	.0273
45.000	-.0036	-.3310			.1634	.2153
90.000	-.1878	-.2859	-.0076	-.0549	.1611	.2287
135.000	.2150	-.3411			.2004	.2841
180.000	.2073	-.3230	.0642	.1125	.2495	.3165
225.000	-.1339	-.2846			.2209	.0000
270.000	-.2558	-.2158	-.0785	-.1655	-.1160	-.1074
315.000	-.2416	-.2708			-.1175	-.1164

ALPHAL(3) =   -2.325   BETAL (2) =   -1.981

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4652	.1460	.2620	-.3505	-.2826	-.2375	-.1441	-.0223	-.0670	-.0676	.2308	.2857	-.0403	.1224	-.2425
45.000		.1981	.2590	-.3403	-.2467	-.1570	-.1507	-.0417	-.0765	-.0965	.1735				
90.000		.2367	.2683	-.3243	-.2243	-.1623	-.0854	-.1397	-.1120	-.1283	.1017		-.1179	-.0557	
135.000		.2599	.3255	-.2980	-.2157	-.1101	.0700	-.0262	-.0764	-.1070	.3089				
180.000	1.4652	.2463	.3876	-.2903	-.2218	-.1828	.1519	-.0274	-.0836	-.1190	.3930	.6982	.1082	.0026	-.3602
225.000		.1849	.4945	-.2832	-.2169	-.2657	.1466	-.0485	-.0448	-.1079	.4407				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(3) =   -2.325   BETAL (2) =   -1.981

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
270.000		.1096	.7092	-.1432	-.3311	-.3468	-.3198	-.1242	-.0824	-.0601	.3434	.8968	.4761	.4836	-.2766
315.000		.0964	.3328	-.3548	-.3508	-.3425	-.1825	-.1099	-.0445	-.0460	.2724				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1007	-.3007	-.0921	-.1553	.0122	.0450
45.000	.0729	-.3023			.1627	.2208
90.000	-.1203	-.2589	-.0158	-.0489	.1311	.1693
135.000	.1583	-.3317			.1630	.2546
180.000	.1596	-.3195	.0423	.1022	.2787	.3146
225.000	-.2092	-.3127			.0700	.0000
270.000	-.2565	-.2174	-.0695	-.1643	-.1312	-.1172
315.000	-.2297	-.2617			-.1175	-.0875

ALPHAL(3) =   -2.294   BETAL (3) =   2.169

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.4273	.0799	.2228	-.3645	-.3059	-.2518	-.1035	-.0321	-.0575	-.0476	.2211	.3578	-.1208	-.0686	-.2825
45.000		.1169	.1959	-.3621	-.2773	-.1783	-.1050	-.0109	-.0721	-.0792	.2332				
90.000		.1426	.2026	-.3564	-.2712	-.1955	-.1130	-.0948	-.1074	-.1222	.1574		-.2137	-.2053	
135.000		.1673	.2674	-.3281	-.2613	-.1555	-.0291	-.1148	-.1381	-.1477	.2269				
180.000	1.4273	.1863	.3759	-.3019	-.2340	-.1054	.0187	-.0936	-.1589	-.0972	.2160	.5479	-.1072	-.1995	-.4095
225.000		.1513	.5146	-.2832	-.2167	-.0165	.0378	-.0688	-.1156	.1117	.2996				
270.000		.0759	.7377	-.1235	-.3210	-.3441	-.3424	-.0838	-.0888	.0338	.2533	.7063	.2232	.3234	-.4107
315.000		.0515	.3235	-.3693	-.3752	-.3481	-.1537	-.1190	-.0681	-.0323	.2404				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0613	-.2767	-.0587	-.1868	.2005	.2247
45.000	.0893	-.2976			.1071	.0817
90.000	-.0577	-.1692	-.0040	-.0300	.0533	.0204
135.000	.0004	-.2185			.0856	.1203
180.000	.0137	-.2939	.0793	.0440	.2633	.2301
225.000	-.1868	-.3025			.0688	.0000
270.000	-.2459	-.2206	-.0650	-.1782	-.1420	-.1182
315.000	-.2222	-.2720			-.0665	-.0039

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(3) = -2.242   BETAL (4) = 6.295

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.3794	.0258	.1805	-.3719	-.3241	-.2646	-.0831	-.0516	-.0435	-.0488	.2069	.3271	-.0680	-.1418	-.2962
45.000		.0438	.1444	-.3809	-.2962	-.1929	-.0174	-.0290	-.0530	-.0793	.2411				
90.000		.0558	.1399	-.3740	-.2928	-.2073	-.0899	-.0691	-.1059	-.1402	.2192				
135.000		.0814	.1934	-.3514	-.3005	-.1399	-.1357	-.1537	-.1714	-.0317	.2150				
180.000	1.3794	.1297	.3403	-.3127	-.2560	.0234	-.0831	-.1323	-.1945	.0409	.1116		-.3163	-.3130	
225.000		.1300	.5190	-.2796	-.2343	.1181	-.0231	-.0759	-.1543	.0741	.2402				
270.000		.1084	.7485	-.0923	-.3149	-.3453	-.3653	-.0795	-.0961	.0244	.2732	.6142	-.1680	-.3251	-.4093
315.000		.0354	.3015	-.3725	-.3774	-.3204	-.1137	-.0697	-.0533	-.0200	.2404	.5640	.3127	.3350	-.4430

PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0614	-.2025	.0403	.0040	.1697	.1610
45.000	.0840	-.2633			.3267	.3148
90.000	-.0190	-.1583	.0555	.0026	.1152	.0861
135.000	-.0671	-.1577			.0915	.0548
180.000	-.0748	-.1810	.1090	-.0394	.0674	.0191
225.000	-.2599	-.2578			-.0087	.0000
270.000	-.2603	-.2194	-.0545	-.1586	-.1375	-.1443
315.000	-.2157	-.2780			.0195	.0737

ALPHAL(4) = -.129   BETAL (1) = -6.132

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.4914	.2565	.3549	-.3181	-.2395	-.1993	-.1177	-.0354	-.0331	-.0562	.2470	.3580	-.0530	.1727	-.1883
45.000		.3215	.3735	-.3100	-.2027	-.0967	-.1216	-.0108	-.0235	-.0562	.2994				
90.000		.3452	.3949	-.2920	-.1840	-.1052	-.0901	-.0191	-.0307	-.0615	.2254		-.0310	.0052	
135.000		.3224	.3756	-.2895	-.2036	-.1083	-.0901	-.0191	-.0307	-.0340	.4333				
180.000	1.4914	.2514	.3567	-.3020	-.2423	-.1083	.0956	.0501	-.0262	-.0223	.5268	.6925	.1845	.1130	-.2678
225.000		.1792	.4223	-.3170	-.2747	-.1947	.1595	.0695	.0112	-.0585	.6089				
270.000		.1602	.7084	-.1549	-.4084	-.3195	.0766	.0507	-.0220	-.0843	.2575				
315.000		.1819	.4319	-.3149	-.2426	-.2666	-.1076	-.1026	-.0244	-.0307	.3008	1.0441	.6075	.4972	-.5806

PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0759	-.3306	-.1546	-.2605	.0276	.1214
45.000	.0706	-.3063			.2369	.3158
90.000	-.0536	-.2237	.0220	-.0781	.1923	.2387
135.000	.2511	-.3186			.1640	.2078
180.000	.2010	-.2857	.0732	.0681	.1729	.2216

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(4) =   -.129   BETAL (1) =   -6.132

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1045	-.2796			.2795	.0000
270.000	-.2378	-.2166	-.0560	-.1575	-.1129	-.1099
315.000	-.2031	-.2615			-.1302	-.0745

ALPHAL(4) =   -.116   BETAL (2) =   -4.074

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4808	.2172	.3344	-.3284	-.2483	-.2160	-.1082	-.0200	-.0513	-.0498	.2568	.3493	-.0271	.2097	-.1848
45.000		.2660	.3287	-.3194	-.2197	-.1155	-.1267	.0017	-.0272	-.0615	.2887				
90.000		.2883	.3281	-.3083	-.2077	-.1299	-.0972	-.0355	-.0406	-.0519	.2238		-.0391	-.0009	
135.000		.2681	.3271	-.3018	-.2228	-.1219	.0745	.0151	-.0474	-.0558	.3947				
180.000	1.4808	.2160	.3329	-.3101	-.2501	-.2144	.1427	.0333	-.0165	-.0753	.4938	.6942	.1778	.0969	-.2874
225.000		.1521	.4139	-.3217	-.2855	-.3024	.0846	-.0126	-.0255	-.0708	.5698				
270.000		.1325	.7321	-.1447	-.4355	-.3174	-.2340	-.2426	-.0582	-.0847	.2814	.9996	.6030	.5136	-.5477
315.000		.1527	.4214	-.3214	-.2627	-.2787	-.1112	-.1067	-.0519	-.0435	.3030				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0882	-.3110	-.1075	-.1864	.0704	.1425
45.000	.0755	-.2932			.2319	.3040
90.000	-.0466	-.2164	.0180	-.0705	.1744	.2119
135.000	.2333	-.3101			.1515	.1994
180.000	.1970	-.2889	.0674	.0719	.1854	.2403
225.000	-.1181	-.2683			.2546	.0000
270.000	-.2327	-.2142	-.0500	-.1519	-.1084	-.0859
315.000	-.2032	-.2446			-.1108	-.0670

ALPHAL(4) =   -.102   BETAL (3) =   -2.010

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4600	.1849	.3145	-.3290	-.2603	-.2258	-.1023	-.0176	-.0513	-.0492	.2421	.3497	-.0678	.1018	-.2047
45.000		.2256	.2901	-.3311	-.2372	-.1300	-.1356	.0095	-.0328	-.0579	.2674				
90.000		.2362	.2699	-.3254	-.2249	-.1496	-.0597	-.0394	-.0427	-.0630	.2187		-.0765	-.0410	
135.000		.2244	.2826	-.3131	-.2369	-.1330	.0449	-.0084	-.0570	-.0790	.3483				
180.000	1.4600	.1843	.3205	-.3174	-.2593	-.2093	.0935	-.0144	-.0567	-.1172	.4466	.7233	.1067	.0083	-.3346
225.000		.1346	.4109	-.3233	-.2907	-.2646	.0768	-.0436	-.0471	-.1084	.4830				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(4) =   -.102   BETAL (3) =   -2.010

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.1084	.7257	-.1453	-.4327	-.3051	-.2969	-.2060	-.1024	-.0865	.2587	.9209	.4956	.4926	-.5133
315.000		.1301	.4148	-.3248	-.2759	-.3052	-.1100	-.0901	-.0748	-.0489	.2733				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0889	-.2889	-.0643	-.1312	.0819	.1253
45.000	.0676	-.2659			.2310	.2819
90.000	-.0525	-.2180	.0301	-.0542	.1652	.1953
135.000	.2174	-.3103			.1488	.1906
180.000	.1575	-.2873	.0652	.0783	.1968	.2372
225.000	-.1563	-.2987			.1795	.0000
270.000	-.2321	-.2082	-.0562	-.1485	-.1128	-.0945
315.000	-.2131	-.2493			-.1033	-.0717

ALPHAL(4) =   -.108   BETAL (4) =   .063

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4429	.1521	.2951	-.3356	-.2682	-.2282	-.1054	-.0267	-.0399	-.0421	.2247	.3645	-.1145	.0285	-.2361
45.000		.1822	.2569	-.3446	-.2531	-.1450	-.1247	.0057	-.0342	-.0601	.2541				
90.000		.1918	.2256	-.3374	-.2411	-.1619	-.0553	-.0396	-.0524	-.0755	.2265		-.1302	-.1012	
135.000		.1894	.2614	-.3225	-.2458	-.1324	.0111	-.0372	-.0589	-.1085	.3162				
180.000	1.4429	.1663	.3207	-.3161	-.2519	-.2064	.0828	-.0550	-.0737	-.1340	.3624	.7735	-.0548	-.1598	-.3582
225.000		.1271	.4258	-.3167	-.2734	-.2460	.0781	-.0479	-.0842	-.0851	.3990				
270.000		.0970	.7458	-.1291	-.4281	-.3047	-.2614	-.1256	-.1097	-.0349	.2301	.7584	.2167	.2691	-.4026
315.000		.1121	.4080	-.3268	-.2838	-.2870	-.1068	-.0818	-.0728	-.0427	.2556				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0638	-.2810	-.0243	-.1269	.0866	.1119
45.000	.0417	-.2389			.1885	.1987
90.000	-.0451	-.2171	.0392	-.0512	.1614	.1826
135.000	.1651	-.3041			.1489	.1811
180.000	.0950	-.2598	.0684	.0809	.2061	.2172
225.000	-.2063	-.2902			.1086	.0000
270.000	-.2370	-.2063	-.0354	-.1475	-.1096	-.0995
315.000	-.2109	-.2583			-.0881	-.0544

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(4) =   -.101   BETAL (5) =   4.195

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4037	.1031	.2558	-.3543	-.2942	-.2508	-.0906	-.0480	-.0432	-.0397	.2145	.4054	-.0605	-.0954	-.2822
45.000		.1025	.1856	-.3733	-.2896	-.1834	-.0381	-.0184	-.0525	-.0662	.2103				
90.000		.1055	.1591	-.3603	-.2804	-.1800	-.0510	-.0343	-.0677	-.1061	.2292		-.2837	-.3108	
135.000		.1073	.2040	-.3487	-.2807	-.1723	-.0462	-.0892	-.0992	-.0562	.2649				
180.000	1.4037	.1070	.2968	-.3280	-.2730	-.1083	-.0023	-.1133	-.1314	.0645	.2304	.5942	-.1638	-.2436	-.3864
225.000		.0916	.4273	-.3151	-.2733	-.1068	.0251	-.0904	-.1136	.1382	.2800				
270.000		.0823	.7307	-.1453	-.4154	-.3176	-.2744	-.0936	-.0866	.0501	.2457	.6762	.2599	.3967	-.4150
315.000		.0835	.3932	-.3367	-.2920	-.2825	-.0912	-.0781	-.0544	-.0187	.2705				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0274	-.2100	.0752	-.0292	.1240	.1219
45.000	.0449	-.2327			.2163	.1844
90.000	.0036	-.1906	.0764	-.0337	.1550	.1082
135.000	.0159	-.1992			.0818	.0728
180.000	.0177	-.2358	.0996	.0205	.1910	.1559
225.000	-.1937	-.2748			.0755	.0000
270.000	-.2417	-.2026	-.0301	-.1471	-.1099	-.0975
315.000	-.2014	-.2552			.0065	.0764

ALPHAL(4) =   -.069   BETAL (6) =   6.266

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3816	.0760	.2362	-.3572	-.3016	-.2534	-.1027	-.0625	-.0470	-.0481	.2250	.4306	-.0275	-.1140	-.3249
45.000		.0637	.1513	-.3825	-.3028	-.1959	-.0161	-.0321	-.0550	-.0757	.2244				
90.000		.0622	.1414	-.3695	-.2875	-.1867	-.0324	-.0396	-.0675	-.1135	.2472		-.3002	-.3285	
135.000		.0649	.1748	-.3563	-.2924	-.1643	-.0783	-.0884	-.1189	-.0127	.2514				
180.000	1.3816	.0766	.2843	-.3280	-.2786	-.0565	-.0556	-.1205	-.1492	.0666	.1797	.6290	-.1314	-.2969	-.3828
225.000		.0742	.4288	-.3114	-.2614	-.0534	-.0220	-.0860	-.1312	.1107	.2670				
270.000		.0601	.7055	-.1409	-.3953	-.3176	-.2893	-.0771	-.0934	.0402	.2754	.6672	.3538	.4776	-.4256
315.000		.0634	.3894	-.3382	-.2847	-.2682	-.0833	-.0830	-.0511	-.0124	.2769				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0139	-.2000	.1379	.0116	.2443	.2452
45.000	.0388	-.2083			.2023	.1504
90.000	-.0100	-.1432	.1162	.0101	.1400	.0941
135.000	-.0117	-.1647			.1055	.0760
180.000	-.0246	-.1726	.1192	-.0238	.0772	.0226

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(4) =   -.069   BETAL (6) =   6.266

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2310	-.2789			.0530	.0000
270.000	-.2497	-.2095	.0084	-.1355	-.1039	-.1060
315.000	-.2000	-.2648			.0742	.1506

ALPHAL(5) =   2.101   BETAL (1) =   -6.086

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4881	.2998	.4119	-.3035	-.2145	-.1773	-.0786	-.0127	-.0186	-.0374	.2931	.3524	.0373	-.0155	-.1759
45.000		.3529	.4026	-.3029	-.1862	-.0670	-.1045	.0073	.0160	-.0272	.3439		-.0037	.0436	
90.000		.3435	.3800	-.3032	-.1890	-.1287	-.1126	.0187	.0240	-.0061	.3241				
135.000		.2851	.3357	-.3032	-.2268	-.1564	-.0025	.0210	-.0182	-.0143	.4395				
180.000	1.4881	.2083	.3050	-.3214	.2664	-.1819	.0458	.0193	-.0212	-.0476	.5519	.7212	.2023	.1308	-.2202
225.000		.1489	.3456	-.3499	-.3143	-.2243	-.0657	.0425	.0260	-.0007	.6471				
270.000		.1595	.6969	-.1641	-.4163	-.2335	-.0962	-.1543	-.0701	-.1050	.0903	1.0909	.6648	.4951	-.5857
315.000		.2158	.5017	-.2882	-.1788	-.2113	-.0568	-.0377	-.0407	-.0281	.3111				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0613	-.2992	-.0756	-.1535	.0806	.1328
45.000	.1374	-.2632			.2839	.3481
90.000	-.0037	-.1900	.0835	-.0819	.2209	.2540
135.000	.2848	-.3051			.1522	.1664
180.000	.1998	-.2906	.0895	.0549	.1582	.1753
225.000	-.1137	-.3106			.2962	.0000
270.000	-.2386	-.1934	-.0257	-.1258	-.0723	-.0647
315.000	-.1854	-.2663			-.0867	-.0265

ALPHAL(5) =   2.088   BETAL (2) =   -1.966

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4587	.2381	.3689	-.3084	-.2277	-.2084	-.0979	-.0222	-.0404	-.0262	.2426	.3979	-.0419	.0237	-.2122
45.000		.2510	.3220	-.3189	-.2234	-.1158	-.1128	.0114	-.0121	-.0313	.2939		-.0729	-.0506	
90.000		.2300	.2688	-.3246	-.2299	-.1648	-.1033	.0019	-.0067	-.0406	.2900				
135.000		.1936	.2622	-.3216	-.2520	-.1563	.0219	-.0195	-.0334	-.0568	.3583				
180.000	1.4587	.1398	.2670	-.3360	-.2793	-.1575	.0254	-.0356	-.0478	-.0975	.4656	.7277	.0863	.0060	-.2592
225.000		.0937	.3301	-.3520	-.3428	-.2517	-.0395	-.0344	-.0181	-.0526	.4995				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(5) =   2.088   BETAL (2) =   -1.966

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.1085	.7127	-.1440	-.4118	-.2655	-.0905	-.0738	-.0777	-.0481	.1635	.8851	.4671	.3942	-.2923
315.000		.1692	.4905	-.2912	-.1937	-.2058	-.0654	-.0377	-.0442	-.0220	.2717				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0425	-.2673	-.0061	-.1196	.1389	.1675
45.000	.1194	-.2117			.1997	.2053
90.000	-.0527	-.2049	.0853	-.0633	.2101	.2128
135.000	.2399	-.2958			.1419	.1642
180.000	.1576	-.2817	.0788	.0627	.1687	.1927
225.000	-.1973	-.2924			.1904	.0000
270.000	-.2338	-.2053	-.0356	-.1416	-.0940	-.0808
315.000	-.2105	-.2596			-.0684	-.0348

ALPHAL(5) =   2.053   BETAL (3) =   2.173

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4184	.1770	.3340	-.3225	-.2504	-.2470	-.0808	-.0463	-.0368	-.0343	.2208	.3711	-.0222	-.0418	-.2666
45.000		.1628	.2456	-.3481	-.2642	-.1633	-.0910	-.0001	-.0353	-.0556	.2391				
90.000		.1427	.1926	-.3508	-.2673	-.1820	-.0412	-.0082	-.0427	-.0754	.2289		-.1974	-.1950	
135.000		.1234	.2101	-.3394	-.2682	-.1590	-.0067	-.0505	-.0688	-.0868	.2958				
180.000	1.4184	.0939	.2570	-.3381	-.2851	-.1844	.0064	-.1127	-.0637	.0242	.3087	.6295	-.0683	-.1820	-.3177
225.000		.0668	.3464	-.3480	-.3332	-.2716	-.0103	-.0356	-.0589	.1344	.3465				
270.000		.0831	.7306	-.1258	-.3615	-.2811	-.0829	-.0731	-.0616	.0573	.1908	.6052	.1938	.1848	-.3972
315.000		.1448	.4845	-.2930	-.2111	-.2154	-.0704	-.0609	-.0370	-.0016	.2621				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0331	-.2251	.0680	-.0693	.1866	.1983
45.000	.0310	-.1814			.1226	.0883
90.000	-.0367	-.1830	.0978	-.0455	.1774	.1661
135.000	.1174	-.2610			.1479	.1520
180.000	-.0120	-.1888	.0701	.0335	.1112	.0904
225.000	-.1590	-.2878			.1485	.0000
270.000	-.2291	-.1928	.0314	-.1179	-.0717	-.0619
315.000	-.2048	-.2463			-.0169	.0460

ALPHAL(5) =   2.055   BETAL (4) =   6.294

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3758	.1286	.2973	-.3372	-.2710	-.2396	-.1136	-.0829	-.0496	-.0428	.2330	.5444	-.0446	-.0802	-.3386
45.000		.0828	.1693	-.3763	-.3044	-.2071	-.0555	-.0373	-.0469	-.0828	.2204		-.2780	-.3031	
90.000		.0608	.1325	-.3802	-.2903	-.1936	-.0073	-.0344	-.0588	-.0918	.1978				
135.000		.0472	.1587	-.3619	-.2903	-.1674	-.0472	-.0925	-.0891	.0188	.2705				
180.000	1.3758	.0319	.2283	-.3447	-.3054	-.0836	-.0436	-.0436	-.1110	.0789	.2348	.5754	-.1761	-.2801	-.3570
225.000		.0391	.3437	-.3484	-.3216	-.2301	-.0174	-.0186	-.1125	.1152	.2726				
270.000		.0689	.7552	-.1029	-.3723	-.2839	-.0701	-.0785	-.0783	.0557	.2534	.5579	.2226	.2937	-.4207
315.000		.1238	.4904	-.2949	-.2141	-.1989	-.0573	-.0901	-.0416	-.0005	.2850				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0091	-.1815	.1795	.0456	.3312	.3565
45.000	.0953	-.1846			.2635	.2158
90.000	-.0036	-.1126	.1383	.0230	.1530	.1237
135.000	.0214	-.1452			.1079	.0706
180.000	.0149	-.1575	.1374	-.0214	.0853	.0295
225.000	-.1993	-.2989			.0814	.0000
270.000	-.2399	-.1895	.0614	-.0989	-.0494	-.0784
315.000	-.1938	-.2399			.1118	.1568

ALPHAL(6) =   4.258   BETAL (1) =   -6.000

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4820	.3644	.4689	-.2835	-.1802	-.1476	-.0738	.0175	.0106	.0132	.2423	.3648	-.1099	-.1205	-.2259
45.000		.3818	.4356	-.2856	-.1707	-.0492	-.0910	-.0027	.0294	.0030	.3512		-.0224	.0077	
90.000		.3410	.3764	-.3013	-.1989	-.1697	-.1544	-.0051	.0237	-.0246	.3338				
135.000		.2587	.2921	-.3176	-.2495	-.1844	-.0625	.0077	-.0152	-.0174	.3844				
180.000	1.4820	.1845	.2524	-.3308	-.2838	-.1390	-.0122	.0023	.0066	.0222	.4810	.6553	.1444	.1169	-.1530
225.000		.1227	.2728	-.3789	-.3964	-.1887	-.0800	.0145	.0264	.0711	.5671				
270.000		.1533	.6587	-.1805	-.4139	-.2041	-.0247	.0112	-.0150	.0213	-.0252	.8320	.4514	.2629	-.4984
315.000		.2587	.5635	-.2624	-.1133	-.1657	-.0185	.0112	-.0012	.0255	.2406				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0119	-.2948	.0042	-.1955	.2212	.2548
45.000	.2176	-.1957			.2274	.2420
90.000	.0270	-.1407	.1024	-.0306	.2230	.2123
135.000	.2729	-.2853			.1456	.1713
180.000	.2026	-.2798	.1250	.0459	.1477	.1423

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(6) =   4.258   BETAL (1) =   -6.000

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1521	-.3237			.1631	.0000
270.000	-.1984	-.1613	.0238	-.0923	-.0390	-.0250
315.000	-.1690	-.2285			-.0339	.0323

ALPHAL(6) =   4.237   BETAL (2) =   -3.948

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4674	.3269	.4469	-.2904	-.1862	-.1669	-.0894	.0042	-.0047	.0027	.2324	.3560	-.0433	-.0794	-.2262
45.000		.3251	.3967	-.3003	-.1944	-.0832	-.1019	-.0071	.0080	-.0105	.3259		-.0704	-.0427	
90.000		.2740	.3122	-.3177	-.2220	-.1901	-.1571	-.0009	.0086	-.0450	.3109				
135.000		.2094	.2497	-.3228	-.2563	-.1886	-.0439	.0030	-.0237	-.0393	.3577				
180.000	1.4674	.1357	.2325	-.3381	-.2937	-.1482	-.0270	-.0065	.0030	-.0012	.4405	.6250	.0999	.0855	-.1616
225.000		.0840	.2611	-.3798	-.4021	-.2174	-.1019	.0167	.0123	.0588	.4884				
270.000		.1243	.6694	-.1656	-.4138	-.1993	-.0520	.0072	-.0183	.0492	.0108	.6783	.3593	.2176	-.4492
315.000		.2364	.5564	-.2618	-.1255	-.1993	-.0252	.0033	-.0189	.0153	.2618				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0129	-.2529	-.0113	-.1384	.2474	.3072
45.000	.1466	-.2271			.2733	.2536
90.000	.0187	-.1323	.0896	-.0288	.1884	.1631
135.000	.2641	-.2802			.1503	.1640
180.000	.1807	-.2682	.1194	.0557	.1599	.1541
225.000	-.1320	-.3176			.2414	.0000
270.000	-.2001	-.1875	.0155	-.0827	-.0250	-.0303
315.000	-.1817	-.2099			-.0274	.0303

ALPHAL(6) =   4.199   BETAL (3) =   .148

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4321	.2617	.4066	-.2952	-.2039	-.2015	-.0668	-.0324	-.0300	-.0099	.2234	.4135	-.0304	-.0050	-.2834
45.000		.2308	.3083	-.3264	-.2367	-.1432	-.1057	-.0140	-.0252	-.0399	.2931		-.1784	-.1910	
90.000		.1785	.2269	-.3454	-.2581	-.2211	-.1172	.0044	-.0098	-.0707	.3030				
135.000		.1313	.1989	-.3412	-.2756	-.1702	-.0066	-.0172	-.0294	-.0519	.3515	.5672	-.0884	-.1203	-.2428
180.000	1.4321	.0721	.2052	-.3534	-.3020	-.1579	-.0226	-.0347	-.0246	.0479	.3551				
225.000		.0312	.2506	-.3868	-.3786	-.2517	-.0650	-.0119	-.0282	.1230	.3551				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(6) =   4.199   BETAL (3) =   .148

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0847	.6825	-.1457	-.3835	-.2517	-.0567	-.0184	-.0387	.0739	.1527	.5028	.1749	.1150	-.3951
315.000		.1986	.5539	-.2637	-.1439	-.1813	-.0247	-.0282	-.0333	.0233	.2513				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0046	-.1899	.0948	-.0107	.2238	.2441
45.000	.0729	-.1930			.2857	.2815
90.000	-.0027	-.1381	.1005	-.0077	.1180	.0636
135.000	.2020	-.2547			.1784	.1862
180.000	.0691	-.2093	.1141	.0580	.1409	.1188
225.000	-.1350	-.3339			.1953	.0000
270.000	-.2111	-.1657	.0312	-.0749	-.0149	-.0204
315.000	-.1872	-.2191			.0675	.1179

ALPHAL(6) =   4.152   BETAL (4) =   4.273

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3863	.2136	.3730	-.3108	-.2302	-.2330	-.0956	-.0825	-.0516	-.0336	.2207	.5038	-.0086	-.0219	-.3504
45.000		.1385	.2271	-.3571	-.2878	-.2121	-.1167	-.0483	-.0548	-.0780	.2144				
90.000		.0871	.1415	-.3775	-.3007	-.2324	-.0296	-.0215	-.0468	-.0774	.1958		-.2548	-.2845	
135.000		.0676	.1430	-.3574	-.2897	-.1649	-.0114	-.0519	-.0537	.0033	.2609				
180.000	1.3863	.0234	.1886	-.3596	-.3160	-.1858	-.0245	-.0533	-.0651	.0891	.2675	.4969	-.1878	-.2389	-.2906
225.000		.0057	.2538	-.3902	-.3188	-.2744	-.0551	-.0427	-.0750	.1439	.2783				
270.000		.0802	.7232	-.1205	-.3921	-.2670	-.0370	-.0533	-.0564	.0849	.2036	.4698	.1350	.1347	-.3795
315.000		.1829	.5523	-.2664	-.1428	-.1847	-.0156	-.0629	-.0354	.0186	.2688				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0175	-.1779	.1859	.0106	.3145	.3401
45.000	.1044	-.1985			.3032	.2421
90.000	-.0143	-.1020	.1365	-.0061	.0909	.0436
135.000	.0659	-.1822			.1142	.0719
180.000	-.0044	-.1595	.0874	.0082	.1210	.0875
225.000	-.1585	-.3219			.1374	.0000
270.000	-.2249	-.1723	.0829	-.0713	-.0058	-.0447
315.000	-.1763	-.2251			.1475	.1783

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(6) =   4.144   BETAL (5) =   6.373

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3606	.1879	.3473	-.3206	-.2407	-.1861	-.0855	-.1081	-.0533	-.0354	.2200	.5905	-.0559	-.0921	-.3423
45.000		.0939	.1822	-.3743	-.3079	-.2371	-.1471	-.0596	-.0596	-.0939	.2032				
90.000		.0475	.1036	-.3911	-.3088	-.2352	-.0111	-.0379	-.0673	-.0858	.1954		-.2850	-.3291	
135.000		.0418	.1346	-.3601	-.2963	-.1588	-.0167	-.0653	-.0705	.0289	.2548				
180.000	1.3606	-.0073	.1792	-.3635	-.3254	-.1699	-.0411	-.0486	-.0936	.0976	.2485	.5227	-.2012	-.2727	-.3215
225.000		-.0064	.2557	-.3874	-.3107	-.2837	-.0477	-.0611	-.0984	.1333	.2614				
270.000		.0843	.7220	-.1042	-.3512	-.2705	-.0185	-.0769	-.0696	.0811	.2377	.4705	.1485	.1594	-.4059
315.000		.1731	.5467	-.2690	-.1401	-.1608	-.0102	-.0852	-.0357	.0130	.2902				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0294	-.1848	.1931	.0487	.3386	.3514
45.000	.1054	-.2029			.2825	.2163
90.000	-.0258	-.0926	.1752	.0159	.1075	.0592
135.000	.0342	-.1396			.1057	.0563
180.000	.0272	-.1414	.1415	-.0252	.0720	.0175
225.000	-.1795	-.3227			.0726	.0000
270.000	-.2259	-.1811	.1021	-.0679	-.0049	-.0597
315.000	-.1740	-.2235			.1254	.1605

ALPHAL(7) =   6.390   BETAL (1) =   -3.876

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4500	.3776	.4954	-.2805	-.1569	-.1382	-.1028	.0083	-.0054	.0163	.3142	.4580	.0063	-.0377	-.2732
45.000		.3450	.4119	-.3018	-.1907	-.0930	-.0509	-.0346	-.0066	-.0029	.3611				
90.000		.2522	.2883	-.3347	-.2475	-.2396	-.2140	-.0778	-.0390	-.0687	.3172		-.1164	-.1116	
135.000		.1754	.2016	-.3511	-.2908	-.2254	-.1264	-.0143	-.0044	.0097	.3016				
180.000	1.4500	.1025	.1847	-.3431	-.3170	-.1551	-.0662	-.0021	.0013	.0881	.3644	.5050	.0021	.0181	-.1155
225.000		.0470	.1660	-.4261	-.3907	-.2223	-.1144	-.0140	.0082	.1521	.3905				
270.000		.1097	.6203	-.1944	-.4817	-.2331	-.0295	.0122	.0160	.1163	.1512	.5086	.2122	.1269	-.4318
315.000		.2715	.6068	-.2503	-.0822	-.1878	-.0191	.0218	-.0053	.0428	.2936				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0256	-.1986	.1125	-.0517	.2693	.3146
45.000	.1341	-.2038			.3972	.4070
90.000	.0711	-.1128	.1900	-.0252	.1244	.1021
135.000	.1843	-.2429			.1051	.0800
180.000	.1369	-.2333	.1390	.0323	.1384	.1107

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(7) =   6.390   BETAL (1) =   -3.876

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1451	-.3810			.1295	.0000
270.000	-.2038	-.1841	.0535	-.0801	-.0106	-.0135
315.000	-.1780	-.1943			.0395	.1135

ALPHAL(7) =   6.373   BETAL (2) =   -1.841

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4348	.3468	.4745	-.2835	-.1638	-.1586	-.0781	-.0141	-.0257	.0059	.2843	.4793	.0666	-.0012	-.2976
45.000		.2914	.3670	-.3142	-.2099	-.1254	-.1070	-.0591	-.0356	-.0181	.3420				
90.000		.1986	.2372	-.3485	-.2645	-.2550	-.2059	-.0665	-.0338	-.0706	.3101		-.1473	-.1599	
135.000		.1333	.1722	-.3532	-.2909	-.2111	-.1020	-.0138	-.0031	.0032	.2885				
180.000	1.4348	.0692	.1679	-.3704	-.3238	-.1795	-.0641	-.0079	-.0034	.0980	.3429	.5128	-.0840	-.0638	-.1714
225.000		.0125	.1499	-.4766	-.3557	-.2535	-.0960	-.0019	-.0022	.1505	.3348				
270.000		.0957	.6266	-.1826	-.3888	-.2571	-.0564	-.0111	-.0097	.1091	.2180	.4278	.1392	.0997	-.4100
315.000		.2610	.6034	-.2449	-.0950	-.2140	-.0055	-.0010	-.0142	.0347	.2907				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0157	-.1790	.1429	-.0120	.2885	.3183
45.000	.1124	-.1837			.3413	.3564
90.000	.0452	-.1022	.1974	-.0183	.0824	.0496
135.000	.2096	-.2537			.1607	.1499
180.000	.1187	-.2264	.1336	.0541	.1533	.1280
225.000	-.1489	-.3603			.1509	.0000
270.000	-.1972	-.1649	.0797	-.0603	.0047	-.0055
315.000	-.1708	-.1947			.1021	.1562

ALPHAL(7) =   6.348   BETAL (3) =   .208

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4185	.3187	.4579	-.2880	-.1722	-.1688	-.0675	-.0359	-.0363	-.0027	.2879	.5008	.1053	.0206	-.3133
45.000		.2454	.3220	-.3308	-.2332	-.1583	-.1250	-.0812	-.0505	-.0444	.3221				
90.000		.1547	.1975	-.3642	-.2826	-.2740	-.1893	-.0497	-.0348	-.0684	.2891		-.1921	-.2138	
135.000		.0993	.1566	-.3578	-.2998	-.1912	-.0514	-.0157	-.0156	.0003	.2518				
180.000	1.4185	.0366	.1541	-.3836	-.3290	-.1860	-.0479	-.0175	-.0174	.1042	.3146	.4727	-.0903	-.1328	-.2063
225.000		-.0140	.1499	-.4303	-.3566	-.2802	-.0827	-.0118	-.0183	.1540	.3209				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(7) =   6.348   BETAL (3) =   .208

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0752	.6378	-.1706	-.3965	-.2476	-.0544	-.0312	-.0213	.1210	.2404	.4468	.1186	.1294	-.3940
315.000		.2436	.6029	-.2449	-.0905	-.2128	.0123	-.0166	-.0201	.0378	.3006				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0312	-.1782	.1882	-.0148	.2803	.3066
45.000	.0863	-.1760			.3024	.2958
90.000	.0267	-.1075	.1963	-.0207	.0717	.0317
135.000	.1907	-.2460			.2019	.1852
180.000	.0353	-.1972	.1161	.0329	.1185	.0725
225.000	-.1514	-.3281			.1575	.0000
270.000	-.2095	-.1647	.0791	-.0652	.0073	-.0186
315.000	-.1705	-.2166			.1230	.1684

ALPHAL(7) =   6.313   BETAL (4) =   2.274

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3947	.2905	.4305	-.2973	-.1904	-.1659	-.0869	-.0726	-.0401	-.0250	.2796	.5464	.1250	.0334	-.3332
45.000		.1977	.2742	-.3467	-.2642	-.1997	-.1456	-.0925	-.0780	-.0698	.2790		-.2172	-.2468	
90.000		.1082	.1546	-.3817	-.3090	-.2875	-.1399	-.0428	-.0449	-.0628	.2585				
135.000		.0672	.1338	-.3726	-.3115	-.1911	-.0381	-.0279	-.0334	.0002	.2351				
180.000	1.3947	.0055	.1353	-.3873	-.3342	-.1782	-.0509	-.0273	-.0352	.1061	.2817	.4400	-.0965	-.1672	-.2151
225.000		-.0355	.1437	-.4386	-.3692	-.2589	-.0914	-.0294	-.0337	.1601	.3141				
270.000		.0627	.6438	-.1637	-.4039	-.2439	-.0759	-.0521	-.0319	.1166	.2796	.4762	.1277	.1207	-.3820
315.000		.2311	.5950	-.2519	-.0943	-.2030	.0051	-.0351	-.0196	.0317	.3208				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0614	-.1730	.1846	.0069	.3237	.3603
45.000	.0906	-.1924			.2445	.2338
90.000	.0026	-.1052	.1957	-.0145	.0632	.0206
135.000	.1121	-.2028			.1587	.1430
180.000	-.0174	-.1561	.0956	.0075	.0685	.0255
225.000	-.1245	-.3200			.1823	.0000
270.000	-.2212	-.1681	.1025	-.0577	.0331	.0102
315.000	-.1718	-.2231			.1757	.1957

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS14)

ALPHAL(7) =   6.293   BETAL (5) =   4.334

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3682	.2698	.4110	-.3035	-.2021	-.1421	-.0858	-.1079	-.0531	-.0375	.2545	.6291	.0601	-.0533	-.3427
45.000		.1511	.2276	-.3614	-.2909	-.2343	-.1844	-.1171	-.0927	-.1015	.2386				
90.000		.0577	.1095	-.3960	-.3308	-.2930	-.0930	-.0504	-.0510	-.0579	.2173		-.2704	-.2969	
135.000		.0263	.0929	-.3815	-.3118	-.1778	-.0212	-.0418	-.0408	.0193	.2227				
180.000	1.3682	-.0279	.1222	-.3913	-.3431	-.2069	-.0418	-.0382	-.0543	.1073	.2539	.4671	-.1763	-.2447	-.2836
225.000		-.0595	.1366	-.4430	-.3757	-.2730	-.0736	-.0329	-.0609	.1575	.2873				
270.000		.0574	.6485	-.1532	-.4002	-.2521	-.0760	-.0760	-.0537	.1085	.2888	.4840	.1150	.1596	-.3970
315.000		.2279	.5918	-.2528	-.1000	-.1743	.0035	-.0549	-.0270	.0190	.3291				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	.0595	-.1832	.2147	.0226	.3448	.3570
45.000	.0749	-.1939			.2052	.1735
90.000	-.0346	-.1247	.2061	-.0264	.0658	.0205
135.000	.0564	-.1641			.0900	.0427
180.000	-.0045	-.1558	.0933	-.0153	.1073	.0655
225.000	-.1632	-.3249			.1318	.0000
270.000	-.2210	-.1730	.1073	-.0699	.0029	-.0400
315.000	-.1641	-.2253			.1535	.1972

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT			MACH =	.900	RN/FT =	2.250
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT			ELV-IB =	8.000	ELV-OB =	6.000
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT			RUDDER =	.000	SPDBRK =	.000
SCALE = .0300 SCALE						

ALPHAL(1) =   -6.521   BETAL (1) =   -3.917

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1860	.0933	-.1252	-1.1493	-.5405	-.2618	-.1814	-.0943	-.0567	-.0600	.0731	.2347	-.4954	-.2955	-.5100
45.000		.1152	-.0702	-1.1535	-.9022	-.2017	-.2444	-.1564	-.1154	-.1013	.0506				
90.000		.2006	.0255	-1.1262	-.6604	-.3381	-.3603	-.2845	-.2419	-.2345	-.0227		-.6726	-.6799	
135.000		.3649	.1392	-1.0675	-.1095	-.1261	-.1964	-.1035	-.0310	-.0318	.1223				
180.000	1.1860	.4837	.2307	-1.0357	.0528	-.0445	-.1523	-.0425	.0465	.0671	.2177	.5887	-.1663	-.5776	-.6588
225.000		.4599	.3191	-1.0039	.0262	-.0229	-.1661	-.0302	.0591	.0864	.3203				
270.000		.2348	.2145	-.8973	-.2104	-.4519	-.3814	-.1050	-.0318	-.0730	.1265	.8097	.1232	.2212	-.6003
315.000		.0871	-.2136	-1.2181	-.5630	-.4928	-.1657	-.0513	-.0115	-.0166	.1324				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1917	-.2754	-.0800	-.2626	-.1445	-.2289
45.000	-.1932	-.1528			-.0689	-.1069
90.000	-.2213	-.1823	-.0797	-.1407	.1118	-.0156
135.000	-.1612	-.1381			.3546	.1571
180.000	-.0719	-.2096	.5057	-.0659	.2836	.0872
225.000	-.3159	-.2652			.2042	.0000
270.000	-.2678	-.2368	.4137	-.2611	.1886	-.1965
315.000	-.3038	-.2633			.2009	-.2271

ALPHAL(1) =   -6.479   BETAL (2) =   -1.380

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1116	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1763	.0848	-.1253	-1.1455	-.5287	-.2580	-.1631	-.0731	-.0463	-.0469	.0538	.2692	-.5125	-.3963	-.5802
45.000		.1074	-.0827	-1.1524	-.9212	-.1801	-.2160	-.1302	-.0992	-.0995	.0187				
90.000		.1677	-.0074	-1.1328	-.7834	-.3360	-.3470	-.2531	-.2018	-.1967	.0027		-.6711	-.6783	
135.000		.3321	.1059	-1.0794	-.1846	-.1755	-.2351	-.1164	-.0503	-.0598	.1026				
180.000	1.1763	.4827	.2280	-1.0393	.0126	-.0851	-.1819	-.0528	.0263	.0404	.1880	.5691	-.1751	-.5856	-.6490
225.000		.4800	.3306	-.9965	.0107	-.0419	-.1865	-.0326	.0507	.0633	.2848				
270.000		.2457	.2200	-.8992	-.2115	-.4393	-.3458	-.0946	-.0251	-.0534	.1575	.7647	.0831	.1579	-.5620
315.000		.0859	-.2156	-1.2198	-.5552	-.4883	-.1708	-.0513	-.0110	-.0133	.1198				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(1) =   -6.479   BETAL (2) =   -1.880

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1582	-.2733	.0254	-.2438	-.1008	-.2040
45.000	-.1946	-.1474			-.0819	-.1358
90.000	-.2154	-.1398	-.0435	-.1684	.0709	-.0515
135.000	-.1934	-.1714			.3323	.1372
180.000	-.0459	-.2425	.5268	-.1000	.2857	.0896
225.000	-.3139	-.2499			.1760	.0000
270.000	-.2660	-.2472	.1342	-.2615	-.1851	-.2208
315.000	-.3006	-.2647			-.1670	-.1932

ALPHAL(1) =   -6.421   BETAL (3) =   .187

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1695	.0705	-.1337	-1.1731	-.5430	-.2666	-.1497	-.0621	-.0471	-.0474	.0570	.2966	-.5379	-.4301	-.6528
45.000		.0933	-.0985	-1.1747	-.9028	-.1702	-.1879	-.1011	-.1050	-.1403	-.0535				
90.000		.1274	-.0439	-1.1623	-.8244	-.3477	-.3283	-.2253	-.1740	-.1652	.0271		-.6870	-.6840	
135.000		.2840	.0601	-1.1099	-.2593	-.2403	-.2774	-.1389	-.0789	-.0992	.0704				
180.000	1.1695	.4700	.2109	-1.0563	-.0411	-.1401	-.2172	-.0753	.0048	.0117	.1349	.5569	-.2133	-.6244	-.6651
225.000		.4959	.3381	-.9934	-.0114	-.0670	-.1944	-.0425	.0413	.0478	.2236				
270.000		.2519	.2151	-.9161	-.2075	-.4489	-.3090	-.0830	-.0163	-.0436	.1756	.7241	.0501	.0961	-.5728
315.000		.0670	-.2319	-1.2405	-.5525	-.4918	-.1736	-.0602	-.0182	-.0205	.1025				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1031	-.3424	.1954	-.3266	.0605	-.1029
45.000	-.2235	-.1470			-.0814	-.1559
90.000	-.2316	-.0999	.0224	-.1683	.0158	-.0821
135.000	-.2346	-.2081			.3057	.1223
180.000	-.0195	-.2088	.4614	-.1029	.1990	.0462
225.000	-.2783	-.2591			-.0099	.0000
270.000	-.2771	-.2644	-.0660	-.2428	-.1851	-.1878
315.000	-.2984	-.2913			-.1701	-.1546

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(1) = -6.400   BETAL (4) = 2.259

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1611	.0690	-.1301	-1.1636	-.5655	-.2665	-.1322	-.0469	-.0239	-.0349	.0619	.3365	-.5643	-.4964	-.6612
45.000		.0867	-.0970	-1.1632	-.8956	-.1430	-.1545	-.0754	-.0696	-.1507	-.0379		-.6646	-.6728	
90.000		.1017	-.0677	-1.1601	-.8433	-.3404	-.2893	-.1902	-.1291	-.1297	.0645				
135.000		.2488	.0216	-1.1128	-.3226	-.2874	-.2931	-.1633	-.0991	-.1175	.0584				
180.000	1.1611	.4656	.2115	-1.0457	-.0854	-.1767	-.2290	-.0880	-.0104	-.0054	.0871	.5529	-.1925	-.6208	-.6200
225.000		.5218	.3643	-.9608	-.0187	-.0706	-.1967	-.0389	.0412	.0469	.1712				
270.000		.2704	.2261	-.9066	-.1919	-.4280	-.2735	-.0658	.0003	-.0291	.1781	.7279	.0539	.1851	-.5010
315.000		.0725	-.2206	-1.2261	-.5709	-.4813	-.1625	-.0466	-.0058	-.0177	.0863				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0372	-.3571	.2793	-.3183	.3035	.0647
45.000	-.2132	-.1559			-.0447	-.1376
90.000	-.2483	-.0830	.0644	-.1181	-.0217	-.1039
135.000	-.2535	-.2330			.2685	.0971
180.000	-.0446	-.2421	.4134	-.1389	.1323	.0050
225.000	-.2998	-.2422			-.0931	.0000
270.000	-.2576	-.2426	-.1327	-.2373	-.1806	-.1823
315.000	-.2994	-.2749			-.1154	-.0910

ALPHAL(1) = -6.375   BETAL (5) = 4.306

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1542	.0690	-.1332	-1.1624	-.5789	-.2832	-.1278	-.0338	-.0119	-.0223	.0466	.3343	-.5573	-.4697	-.6350
45.000		.0786	-.1047	-1.1624	-.7001	-.1302	-.1266	-.0511	-.0415	-.1068	-.0005		-.6323	-.6377	
90.000		.0775	-.0920	-1.1682	-.8611	-.3366	-.2525	-.1493	-.0956	-.0903	.0798				
135.000		.2080	-.0180	-1.1262	-.3998	-.3317	-.3088	-.1842	-.1179	-.1312	.0313				
180.000	1.1542	.4556	.1999	-1.0463	-.1412	-.2199	-.2494	-.1178	-.0314	-.0161	.0183	.5639	-.4554	-.5139	-.6211
225.000		.5449	.3813	-.9247	-.0268	-.0806	-.1807	-.0445	.0324	.0412	.1192				
270.000		.2858	.2346	-.8929	-.1730	-.4154	-.2429	-.0549	.0045	-.0150	.1620	.7429	.0729	.3609	-.5073
315.000		.0744	-.2206	-1.2242	-.5604	-.4711	-.1473	-.0434	-.0100	-.0173	.0686				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0352	-.3405	.2746	-.1803	.3792	.1389
45.000	-.2120	-.1705			.0102	-.1036
90.000	-.2505	-.0811	.1202	-.0952	-.0308	-.1128
135.000	-.2462	-.2406			.1707	.0124
180.000	-.0478	-.3125	.2550	-.1841	.0025	-.1016

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS15)

ALPHAL(1) = -6.375   BETAL (5) =   4.306

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2917	-.2538			-.1109	.0000
270.000	-.2580	-.2451	-.1672	-.2305	-.1868	-.2115
315.000	-.3019	-.2818			-.0749	-.0597

ALPHAL(2) = -4.386   BETAL (1) = -6.016

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2113	.1536	-.0761	-1.1493	-.5050	-.2295	-.1403	-.0932	-.0391	-.0179	.1234	.2236	-.4516	-.1321	-.4431
45.000		.1943	-.0065	-1.1474	-.8542	-.1511	-.1839	-.1253	-.0926	-.0836	.0825		-.6659	-.6698	
90.000		.2806	.0904	-1.1142	-.6889	-.2142	-.2545	-.2049	-.1753	-.1612	.0307				
135.000		.3794	.1591	-1.0809	-.1065	-.0385	-.0982	-.0468	.0240	.0440	.1790				
180.000	1.2113	.4251	.1815	-1.0793	.0511	-.0039	-.0916	-.0264	.0601	.1086	.2567	.5785	-.1761	-.5701	-.6371
225.000		.4104	.2479	-1.0637	.0220	-.0138	-.1113	-.0253	.0648	.1215	.3467				
270.000		.2899	.2911	-.8874	-.4767	-.4078	-.2846	-.0695	-.0052	-.0321	.1089	.8165	.1719	.2717	-.5859
315.000		.1726	-.1072	-1.1965	-.5779	-.4371	-.1137	-.0384	-.0006	.0085	.1446				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1325	-.2591	-.1573	-.3111	-.1623	-.2309
45.000	-.1679	-.1926			.0309	-.0274
90.000	-.2075	-.1596	.0249	-.0428	.2002	.0447
135.000	-.1014	-.0615			.3350	.1488
180.000	-.0646	-.1478	.4827	-.0270	.2598	.0646
225.000	-.3123	-.3458			.2478	.0000
270.000	-.2846	-.2437	.1529	-.2584	-.1906	-.1960
315.000	-.3070	-.2646			-.2041	-.2255

ALPHAL(2) = -4.343   BETAL (2) = -3.973

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2085	.1546	-.0693	-1.1363	-.5396	-.2274	-.1282	-.0721	-.0329	-.0198	.1068	.2021	-.4343	-.1761	-.4584
45.000		.1827	-.0186	-1.1402	-.8650	-.1360	-.1643	-.1109	-.0709	-.0623	.0869		-.6500	-.6576	
90.000		.2527	.0588	-1.1144	-.7994	-.2164	-.2558	-.1912	-.1578	-.1483	.0410				
135.000		.3528	.1331	-1.0756	-.2448	-.0719	-.1389	-.0659	.0077	.0211	.1611				
180.000	1.2085	.4255	.1808	-1.0638	.0359	-.0351	-.1286	-.0428	.0468	.0892	.2346	.5753	-.1761	-.5718	-.6422
225.000		.4297	.2650	-1.0433	.0230	-.0313	-.1443	-.0359	.0563	.0999	.3241				

IA81A - PRESSURE SOURCE DATA TABULATION

DATE 21 OCT 75

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(2) = -4.343   BETAL (2) = -3.973

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3035	.3012	-.8696	-.4535	-.4061	-.2754	-.0613	.0012	-.0171	.1527	.7946	.1288	.2885	-.5586
315.000		.1746	-.1063	-1.1829	-.5472	-.4649	-.1228	-.0382	-.0003	.0070	.1431				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1428	-.2206	-.1228	-.2613	-.1305	-.2063
45.000	-.1710	-.1423			.0138	-.0459
90.000	-.1977	-.1275	-.0063	-.0555	.1507	.0150
135.000	-.1385	-.0876			.3234	.1444
180.000	-.0523	-.1830	.4888	-.0524	.2752	.0777
225.000	-.3027	-.2722			.1919	.0000
270.000	-.2590	-.2272	.1549	-.2298	-.1735	-.1774
315.000	-.2811	-.2512			-.1805	-.2054

ALPHAL(2) = -4.288   BETAL (3) = .129

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2030	.1335	-.0741	-1.1489	-.5780	-.2262	-.1174	-.0428	-.0201	-.0201	.0871	.2963	-.4999	-.3889	-.5745
45.000		.1536	-.0433	-1.1435	-.9047	-.1048	-.1397	-.0670	-.0385	-.0515	.0656				
90.000		.1898	.0056	-1.1389	-.8319	-.2202	-.2316	-.1435	-.0993	-.0970	.0695		-.6479	-.6557	
135.000		.2915	.0708	-1.0956	-.4490	-.1507	-.2062	-.0997	-.0327	-.0323	.1215				
180.000	1.2030	.4163	.1728	-1.0656	-.0600	-.1132	-.1916	-.0574	.0128	.0381	.1671	.5569	-.2316	-.6114	-.6399
225.000		.4622	.2934	-1.0307	-.0027	-.0650	-.1747	-.0451	.0381	.0660	.2352				
270.000		.3246	.3142	-.8706	-.4148	-.4023	-.2512	-.0535	.0094	-.0059	.1793	.6944	.0443	.0446	-.5768
315.000		.1732	-.1084	-1.1871	-.5310	-.4904	-.1377	-.0424	-.0044	-.0052	.1063				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0806	-.2752	.0991	-.2055	-.0380	-.1282
45.000	-.1830	-.1041			-.0147	-.0929
90.000	-.2041	-.0677	.0299	-.0934	.0433	-.0527
135.000	-.1933	-.1288			.2620	.1053
180.000	-.0119	-.2297	.4640	-.1003	.2102	.0567
225.000	-.2589	-.2435			-.0116	.0000
270.000	-.2642	-.2473	-.0864	-.2362	-.2008	-.1885
315.000	-.2843	-.2821			-.1697	-.1633

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS15)

ALPHAL(2) = -4.251   BETAL (4) =   4.243

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1865	.1273	-.0840	-1.1329	-.6110	-.2406	-.0900	-.0295	-.0030	-.0073	.0727	.3272	-.5470	-.4766	-.6040
45.000		.1288	-.0563	-1.1244	-.9106	-.1050	-.0831	-.0236	-.0076	-.0211	.0712				
90.000		.1377	-.0379	-1.1359	-.8992	-.2191	-.1743	-.0848	-.0386	-.0426	.1107			-.6312	-.6251
135.000		.2206	.0069	-1.1277	-.6464	-.2342	-.2443	-.1231	-.0575	-.0743	.0856				
180.000	1.1865	.4007	.1693	-1.0741	-.1738	-.1904	-.2239	-.0986	-.0096	.0061	.0586	.5743	-.4326	-.5158	-.5683
225.000		.5025	.3375	-1.0114	-.0431	-.0842	-.1739	-.0523	.0379	.0670	.1416				
270.000		.3579	.3394	-.8764	-.3765	-.3966	-.2124	-.0405	.0161	.0126	.1754	.7028	.0544	.1797	-.4882
315.000		.1736	-.0866	-1.1893	-.5223	-.4668	-.1319	-.0301	.0000	.0019	.0720				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0565	-.2997	.2106	-.1234	.2640	.0950
45.000	-.1803	-.1192			.0698	-.0670
90.000	-.2336	-.0660	.0993	-.0655	-.0177	-.0964
135.000	-.2288	-.1795			.1600	.0204
180.000	-.0174	-.3121	.3075	-.1921	.0228	-.0891
225.000	-.2997	-.2455			-.1040	.0000
270.000	-.2624	-.2421	-.1558	-.2252	-.1740	-.1979
315.000	-.2903	-.2821			-.0953	-.0656

ALPHAL(2) = -4.229   BETAL (5) =   6.302

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1771	.1147	-.0894	-1.1464	-.6550	-.2680	-.0844	-.0169	.0007	-.0095	.0543	.3001	-.5415	-.4895	-.5615
45.000		.1158	-.0759	-1.1387	-.7873	-.1111	-.0772	-.0238	-.0008	-.0171	.0670				
90.000		.1150	-.0705	-1.1503	-.9139	-.2180	-.1524	-.0841	-.0357	-.0202	.0971			-.6242	-.6169
135.000		.1917	-.0332	-1.1311	-.6042	-.2695	-.2498	-.1385	-.0618	-.0695	.0452				
180.000	1.1771	.3922	.1535	-1.0705	-.2040	-.2275	-.2371	-.1282	-.0282	.0047	.0054	.4619	-.4683	-.4822	-.6077
225.000		.5193	.3453	-.9962	-.0721	-.0948	-.1777	-.0599	.0276	.0444	.1044				
270.000		.3664	.3368	-.8684	-.3457	-.3673	-.1907	-.0334	.0157	.0073	.1621	.6231	.0068	.2451	-.4791
315.000		.1747	-.0909	-1.1804	-.5121	-.4620	-.1251	-.0223	.0043	-.0072	.0637				

X/LS	.6102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0787	-.2260	.1884	-.0183	.2522	.0970
45.000	-.1626	-.1130			.1911	.0371
90.000	-.1880	-.0504	.1365	-.0690	-.0006	-.0993
135.000	-.1703	-.1726			.0490	-.0616
180.000	-.1194	-.2560	.1707	-.1877	-.0217	-.1021

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(2) = -4.229   BETAL (5) =   6.302

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3015	-.2886			-.1020	.0000
270.000	-.2666	-.2458	-.1174	-.2180	-.1927	-.2335
315.000	-.3023	-.2913			-.0183	.0060

ALPHAL(3) = -2.232   BETAL (1) =   -6.053

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2201	.2147	-.0175	-1.1393	-.5006	-.1799	-.1066	-.0517	-.0183	.0123	.1380	.2210	-.4483	-.1999	-.5089
45.000		.2496	.0353	-1.1324	-.8316	-.0929	-.1188	-.0771	-.0445	-.0285	.1127				
90.000		.3111	.1058	-1.1073	-.7270	-.0994	-.1403	-.1040	-.0706	-.0553	.0913		-.6471	-.6621	
135.000		.3569	.1332	-1.0746	-.2618	-.0139	-.0659	-.0395	.0440	.0857	.2003				
180.000	1.2201	.3688	.1266	-1.0807	-.0977	-.0070	-.0809	-.0379	.0624	.1334	.2600	.5434	-.1879	-.5616	-.6020
225.000		.3761	.1883	-1.0769	-.0914	-.0492	-.1073	-.0364	.0669	.1341	.3366				
270.000		.3361	.3470	-.8384	-.5959	-.3767	-.2308	-.0614	.0100	-.0086	.0982	.7838	.1559	.2519	-.4825
315.000		.2439	-.0175	-1.1527	-.4892	-.3903	-.0974	-.0322	.0081	.0182	.1423				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0903	-.2310	-.1464	-.3019	-.1132	-.1945
45.000	-.1364	-.1841			.1046	.0157
90.000	-.1628	-.0860	.0492	.0164	.2155	.0555
135.000	-.0834	-.0128			.2784	.1047
180.000	-.0231	-.1078	.4325	-.0310	.2267	.0390
225.000	-.3027	-.3866			.2669	.0000
270.000	-.2802	-.2457	.1642	-.2406	-.1813	-.1873
315.000	-.2981	-.2789			-.2033	-.2177

ALPHAL(3) = -2.183   BETAL (2) =   -1.977

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2171	.2069	-.0239	-1.1428	-.5914	-.1683	-.1002	-.0336	-.0081	.0047	.1119	.2790	-.4610	-.2538	-.4749
45.000		.2146	.0066	-1.1359	-.8542	-.0626	-.1040	-.0470	-.0158	-.0076	.1196				
90.000		.2478	.0546	-1.1243	-.8508	-.1116	-.1445	-.0786	-.0440	-.0413	.1024		-.6366	-.6528	
135.000		.3039	.0897	-1.0966	-.6218	-.0610	-.1198	-.0582	.0154	.0411	.1702				
180.000	1.2171	.3580	.1276	-1.0886	-.1394	-.0633	-.1337	-.0509	.0361	.0874	.2180	.5439	-.2201	-.5747	-.5998
225.000		.3993	.2107	-1.0753	-.1295	-.0896	-.1433	-.0455	.0476	.1024	.2828				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (RETS15)

ALPHAL(3) = -2.183 BETAL (2) = -1.977

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3553	.3673	-.8436	-.5526	-.3981	-.2003	-.0405	.0223	.0273	.1801	.6923	.0633	.1066	-.4591
315.000		.2505	-.0088	-1.1635	-.4715	-.4417	-.1148	-.0293	.0039	.0166	.1178				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1301	-.1875	-.0668	-.1967	-.0387	-.1200
45.000	-.1463	-.1060			.0869	-.0059
90.000	-.1645	-.0519	.0341	-.0025	.1324	-.0056
135.000	-.1418	-.0409			.2669	.0903
180.000	-.0363	-.1815	.4665	-.0668	.2677	.0739
225.000	-.2942	-.2577			.1513	.0000
270.000	-.2542	-.2161	.0919	-.1925	-.1443	-.1801
315.000	-.2859	-.2367			-.1555	-.1771

ALPHAL(3) = -2.167 BETAL (3) = 2.150

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2076	.1844	-.0379	-1.1536	-.7337	-.1892	-.0942	-.0290	-.0063	-.0023	.0840	.3184	-.5207	-.4280	-.5247
45.000		.1751	-.0290	-1.1393	-.8739	-.0609	-.08'9	-.0286	-.0047	-.0016	.0920				
90.000		.1890	-.0007	-1.1517	-.8709	-.1184	-.1351	-.0579	-.0202	-.0139	.1055		-.6309	-.6323	
135.000		.2428	.0267	-1.1204	-.7311	-.1218	-.1706	-.0791	-.0123	-.0066	.1312				
180.000	1.2075	.3466	.1188	-1.0933	-.2545	-.1325	-.1783	-.0672	.0065	.0384	.1381	.5360	-.2678	-.5804	-.5483
225.000		.4291	.2410	-1.0652	-.1150	-.1176	-.1594	-.0494	.0338	.0740	.1753				
270.000		.3764	.3790	-.8568	-.5746	-.4114	-.1648	-.0421	.0096	.0276	.1753	.5787	-.0183	.1016	-.4140
315.000		.2510	-.0015	-1.1615	-.4677	-.4545	-.1212	-.0255	.0000	.0034	.0833				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1062	-.2363	.0844	-.1208	.1381	.0232
45.000	-.1380	-.1382			.1026	-.0347
90.000	-.1964	-.0392	.0643	-.0235	.0382	-.0628
135.000	-.1890	-.0778			.1427	.0192
180.000	-.0251	-.2593	.4256	-.1552	.1875	.0257
225.000	-.2758	-.2252			-.0655	.0000
270.000	-.2555	-.2256	-.1212	-.2109	-.1634	-.1714
315.000	-.2891	-.2523			-.1226	-.0967

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS15)

ALPHAL(3) = -2.142   BETAL (4) = 6.253

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1947	.1713	-.0415	-1.1475	-.7909	-.2323	-.0752	-.0170	.0026	.0003	.0831	.3749	-.5370	-.5008	-.5189
45.000		.1469	-.0523	-1.1463	-.7483	-.0753	-.0698	-.0193	-.0016	.0014	.1038				
90.000		.1504	-.0407	-1.1513	-.9095	-.1152	-.1087	-.0486	-.0147	-.0097	.1049			-.6141	-.6118
135.000		.1929	-.0292	-1.1369	-.8198	-.1825	-.1953	-.0967	-.0220	-.0109	.0896				
180.000	1.1947	.3307	.1099	-1.0928	-.3110	-.2049	-.2215	-.1064	-.0128	.0279	.0367	.4393	-.4329	-.5104	-.5702
225.000		.4605	.2755	-1.0441	-.1201	-.1304	-.1633	-.0605	.0179	.0566	.1064				
270.000		.4107	.4087	-.8490	-.5319	-.3992	-.1418	-.0309	.0026	.0275	.1551	.4948	-.0408	.1123	-.4761
315.000		.2666	.0195	-1.1506	-.4559	-.4598	-.1168	-.0167	.0052	.0041	.0895				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0859	-.1417	.1851	.0184	.2473	.1152
45.000	-.1175	-.0866			.1840	.0376
90.000	-.1476	-.0316	.1540	-.0546	.0161	-.0892
135.000	-.1481	-.1128			.0822	-.0412
180.000	-.0631	-.2210	.2097	-.1756	-.0139	-.0959
225.000	-.2856	-.2856			-.0619	.0000
270.000	-.2749	-.2313	-.0557	-.1867	-.1679	-.2241
315.000	-.2890	-.2749			.0457	.0614

ALPHAL(4) = -.091   BETAL (1) = -6.072

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2267	.2728	.0328	-1.1170	-.8429	-.0943	-.0821	-.0471	-.0069	.0243	.1559	.2941	-.4667	-.2089	-.4579
45.000		.2998	.0821	-1.1090	-.8034	-.0303	-.0682	-.0395	-.0065	.0117	.1555				
90.000		.3221	.1237	-1.0936	-.7093	-.0175	-.0579	-.0353	.0046	.0354	.1498			-.6419	-.6416
135.000		.3164	.1071	-1.0858	-.6630	.0090	-.0448	-.0326	.0507	.1085	.2162				
180.000	1.2267	.3029	.0794	-1.0964	-.3131	-.0080	-.0636	-.0410	.0622	.1483	.2528	.5058	-.1785	-.5159	-.5513
225.000		.3268	.1206	-1.1059	-.2500	-.1038	-.0640	-.0280	.0695	.1559	.3120				
270.000		.3507	.3682	-.8103	-.6162	-.3299	-.0986	-.0280	.0347	.0749	.1830	.6710	.0900	.2783	-.3107
315.000		.3006	.0744	-1.1280	-.5450	-.3049	-.0944	-.0322	.0125	.0371	.1454				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1444	-.2541	-.1067	-.2557	-.0152	-.1029
45.000	-.1052	-.1757			.1909	.0737
90.000	-.1301	-.0295	.1062	.0530	.2238	.0683
135.000	-.0625	.0004			.2292	.0723
180.000	-.0280	-.0973	.3919	-.0301	.1932	.0224

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(4) =   -.091   BETAL (1) =   -6.072

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2904	-.3306			.1755	.0000
270.000	-.2931	-.2298	.0875	-.2181	-.1706	-.1829
315.000	-.3086	-.2469			-.2013	-.2073

ALPHAL(4) =   -.077   BETAL (2) =   -4.041

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2238	.2734	.0310	-1.1235	-.8401	-.0974	-.0803	-.0395	-.0037	.0236	.1504	.3112	-.4743	-.2478	-.4419
45.000		.2804	.0676	-1.1189	-.8150	-.0263	-.0642	-.0318	.0006	.0194	.1561				
90.000		.2900	.0962	-1.1100	-.7537	-.0232	-.0642	-.0364	.0036	.0351	.1404		-.6305	-.6394	
135.000		.2974	.0897	-1.0940	-.6844	-.0058	-.0572	-.0372	.0412	.0911	.1933				
180.000	1.2238	.3024	.0808	-1.0997	-.3030	-.0282	-.0761	-.0395	.0520	.1283	.2244	.4956	-.2393	-.5273	-.5605
225.000		.3372	.1302	-1.1065	-.2536	-.1213	-.0742	-.0345	.0562	.1389	.2769				
270.000		.3631	.3835	-.8081	-.5795	-.3578	-.0865	-.0433	.0247	.0822	.2171	.5884	.0213	.1477	-.4059
315.000		.3078	.0757	-1.1328	-.5430	-.3455	-.0915	-.0318	.0159	.0370	.1392				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1658	-.2289	-.0782	-.2030	.0266	-.0755
45.000	-.1133	-.1377			.1745	.0566
90.000	-.1303	-.0121	.1206	.0401	.1838	.0258
135.000	-.0878	.0061			.2046	.0459
180.000	-.0228	-.1171	.4073	-.0543	.2127	.0305
225.000	-.2746	-.3446			.1672	.0000
270.000	-.2685	-.2225	.0755	-.2027	-.1572	-.1709
315.000	-.2944	-.2411			-.1819	-.1774

ALPHAL(4) =   -.074   BETAL (3) =   .052

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2164	.2500	.0162	-1.1460	-.8655	-.1299	-.0858	-.0370	-.0075	.0039	.1196	.3740	-.4867	-.3477	-.4925
45.000		.2263	.0124	-1.1433	-.8525	-.0251	-.0711	-.0311	-.0021	.0143	.1327				
90.000		.2325	.0364	-1.1382	-.8231	-.0404	-.0819	-.0435	-.0052	.0251	.1234		-.6287	-.6411	
135.000		.2496	.0461	-1.1184	-.8020	-.0469	-.1079	-.0556	.0159	.0432	.1435				
180.000	1.2164	.2923	.0768	-1.1130	-.4543	-.0840	-.1265	-.0610	.0182	.0698	.1531	.4718	-.3140	-.5553	-.5829
225.000		.3603	.1494	-1.1100	-.3193	-.1518	-.0997	-.0590	.0247	.0903	.1952				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS15)

ALPHAL(4) =   -.074   BETAL (3) =   .052

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3844	.4038	-.8185	-.5802	-.4023	-.0819	-.0734	-.0046	.0567	.2160	.5001	-.0913	.0620	-.5096
315.000		.3114	.0753	-1.1463	-.5572	-.4031	-.0943	-.0346	.0097	.0247	.1357				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1502	-.2101	.0451	-.1022	.1314	-.0005
45.000	-.1301	-.1292			.1689	.0339
90.000	-.1270	-.0009	.1070	.0138	.1175	-.0229
135.000	-.1288	-.0105			.1345	.0043
180.000	-.0410	-.1368	.3580	-.0890	.1681	.0197
225.000	-.2090	-.2571			.0722	.0000
270.000	-.2506	-.2502	-.0198	-.1931	-.1289	-.1379
315.000	-.2815	-.2712			-.1192	-.0966

ALPHAL(4) =   -.060   BETAL (4) =   4.153

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2063	.2348	.0078	-1.1332	-.8474	-.1582	-.0696	-.0292	-.0041	.0055	.1218	.4236	-.4972	-.4349	-.4969
45.000		.1893	-.0204	-1.1370	-.8827	-.0285	-.0608	-.0288	-.0018	.0120	.1317				
90.000		.1854	-.0084	-1.1320	-.8744	-.0342	-.0762	-.0349	.0021	.0270	.1087		-.6070	-.6123	
135.000		.2074	-.0042	-1.1182	-.8306	-.0775	-.1328	-.0646	.0039	.0285	.1168				
180.000	1.2063	.2808	.0700	-1.1030	-.6933	-.1399	-.1606	-.0847	-.0007	.0496	.0934	.4422	-.3332	-.5248	-.5399
225.000		.3862	.1854	-1.0843	-.3377	-.1585	-.1055	-.0716	.0185	.0784	.1386				
270.000		.4171	.4271	-.8169	-.5925	-.4073	-.0746	-.0974	-.0187	.0485	.2027	.4476	-.1410	.1771	-.4733
315.000		.3329	.0997	-1.1254	-.5610	-.4304	-.0689	-.0134	.0162	.0204	.1463				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1163	-.1591	.1537	-.0240	.1904	.0752
45.000	-.1399	-.0708			.1790	.0393
90.000	-.1326	-.0224	.1522	-.0325	.0790	-.0487
135.000	-.1489	-.0400			.0787	-.0357
180.000	-.0476	-.1968	.2848	-.1540	.0771	-.0529
225.000	-.3042	-.2508			-.0244	.0000
270.000	-.3004	-.2154	-.0556	-.1678	-.1167	-.1641
315.000	-.3115	-.2485			.0100	.0031

ARCI1-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(4) =   -.056   BETAL (5) =   6.186

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.1980	.2221	-.0023	-1.1474	-.8467	-.1587	-.0625	-.0304	-.0037	.0021	.1279	.4409	-.4884	-.4440	-.5020
45.000		.1667	-.0453	-1.1555	-.8525	-.0271	-.0602	-.0296	-.0025	.0071	.1306				
90.000		.1651	-.0333	-1.1463	-.7681	-.0431	-.0698	-.0381	-.0037	.0221	.0956		-.5908	-.6106	
135.000		.1957	-.0283	-1.1370	-.8437	-.1080	-.1349	-.0702	.0021	.0275	.1033				
180.000	1.1980	.2709	.0666	-1.1156	-.6386	-.1705	-.1782	-.0949	-.0072	.0468	.0598	.3783	-.3779	-.4884	-.5364
225.000		.3946	.1986	-1.0889	-.2816	-.1621	-.1174	-.0795	.0059	.0678	.1140				
270.000		.4271	.4316	-.8326	-.5955	-.3975	-.0815	-.1232	-.0295	.0413	.1952	.4401	-.1724	.2701	-.5132
315.000		.3411	.1026	-1.1313	-.5471	-.4263	-.0598	-.0141	.0171	.0155	.1476				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1105	-.1146	.2222	.0412	.2534	.1205
45.000	-.1442	-.0373			.1667	.0292
90.000	-.1391	-.0201	.1964	-.0478	.1105	-.0347
135.000	-.1302	-.0559			.0670	-.0510
180.000	-.0677	-.1808	.2229	-.1506	.0050	-.0932
225.000	-.2962	-.2696			-.0247	.0000
270.000	-.2989	-.2063	-.0358	-.1649	-.1456	-.2025
315.000	-.3133	-.2364			.1120	.1005

ALPHAL(5) =   2.065   BETAL (1) =   -6.067

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.2160	.3269	.0735	-1.1142	-.7754	-.0558	-.0557	-.0352	.0033	.0369	.1644	.3397	-.4448	-.2665	-.4363
45.000		.3331	.1105	-1.1127	-.7450	-.0098	-.0391	-.0117	.0207	.0469	.1886				
90.000		.3110	.1163	-1.1065	-.7191	-.0014	-.0252	-.0175	.0249	.0853	.1916		-.6227	-.6246	
135.000		.2662	.0680	-1.1059	-.4214	.0062	-.0387	-.0364	.0469	.1271	.2215				
180.000	1.2160	.2406	.0224	-1.1116	-.4001	-.0087	-.0487	-.0325	.0630	.1558	.2296	.4615	-.2507	-.4873	-.4978
225.000		.2681	.0390	-1.1451	-.3791	-.1642	-.0391	-.0256	.0661	.1675	.2686				
270.000		.3420	.3566	-.8074	-.5335	-.3220	-.0549	-.0217	.0427	.1012	.1832	.5373	-.0168	.0845	-.4440
315.000		.3458	.1379	-1.1086	-.6023	-.2154	-.0738	-.0187	.0247	.0522	.1437				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1212	-.1992	-.0815	-.2129	.0472	-.0715
45.000	-.0976	-.1912			.2788	.1205
90.000	-.0864	.0067	.1139	.0638	.2388	.0734
135.000	-.0238	.0078			.1925	.0339
180.000	.0181	-.0424	.3112	-.0291	.1382	-.0309

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(5) =   2.065   BETAL (1) =   -6.067

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2300	-.4042			.2187	.0000
270.000	-.2768	-.2113	.1274	-.2079	-.1427	-.1671
315.000	-.2874	-.2285			-.1720	-.1740

ALPHAL(5) =   2.071   BETAL (2) =   -2.005

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2150	.3191	.0674	-1.1209	-.7977	-.0826	-.0633	-.0385	.0082	.0295	.1616	.4001	-.4645	-.3227	-.4540
45.000		.2819	.0586	-1.1240	-.7901	-.0125	-.0474	-.0281	.0101	.0326	.1719				
90.000		.2528	.0586	-1.1271	-.8279	-.0102	-.0575	-.0447	.0089	.0573	.1604		-.6038	-.6116	
135.000		.2408	.0323	-1.1133	-.4997	-.0068	-.0679	-.0516	.0276	.0873	.1723				
180.000	1.2150	.2376	.0273	-1.1217	-.3304	-.0682	-.0803	-.0516	.0361	.1131	.1835	.4265	-.2376	-.4652	-.5225
225.000		.2823	.0586	-1.1473	-.3480	-.2271	-.0656	-.0535	.0384	.1255	.2280				
270.000		.3653	.3868	-.7985	-.4902	-.4002	-.0764	-.0616	.0057	.0774	.2376	.5275	-.0900	.1721	-.4842
315.000		.3629	.1519	-1.1114	-.5569	-.3113	-.0830	-.0177	.0199	.0413	.1709				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1226	-.1865	.0111	-.0980	.0986	-.0090
45.000	-.1129	-.1172			.2286	.0882
90.000	-.1098	.0036	.1275	.0319	.1487	.0015
135.000	-.0772	-.0037			.1337	-.0074
180.000	-.0300	-.0924	.2914	-.0637	.1383	-.0239
225.000	-.2502	-.3382			.1603	.0000
270.000	-.2627	-.2208	.0851	-.1736	-.1092	-.1396
315.000	-.2913	-.2551			-.1223	-.1173

ALPHAL(5) =   2.055   BETAL (3) =   2.097

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2121	.3029	.0617	-1.1234	-.8226	-.1067	-.0646	-.0398	.0007	.0119	.1558	.4742	-.4651	-.4373	-.4769
45.000		.2316	.0174	-1.1316	-.8494	-.0141	-.0592	-.0383	-.0043	.0165	.1566				
90.000		.2044	.0155	-1.1343	-.8383	.0042	-.0646	-.0417	.0003	.0388	.1312		-.5976	-.5937	
135.000		.2106	.0077	-1.1218	-.7003	-.0213	-.0921	-.0506	.0231	.0577	.1331				
180.000	1.2121	.2335	.0344	-1.1191	-.4780	-.1098	-.1164	-.0688	.0219	.0762	.1266	.4148	-.2933	-.4935	-.5078
225.000		.3064	.0898	-1.1340	-.3648	-.2421	-.0940	-.0688	.0273	.0967	.1612				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(5) =   2.055   BETAL (3) =   2.097

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3983	.4194	-.7932	-.5062	-.4517	-.0863	-.0888	-.0142	.0648	.2260	.4615	-.1596	.2515	-.4642
315.000		.3863	.1702	-1.1057	-.5665	-.3513	-.0754	-.0112	.0161	.0341	.1730				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1181	-.1710	.1460	-.0370	.2091	.0929
45.000	-.1385	-.0656			.1840	.0499
90.000	-.1239	-.0036	.1525	.0019	.1067	-.0289
135.000	-.1246	-.0253			.0641	-.0468
180.000	-.0588	-.1333	.2915	-.1098	.1083	-.0303
225.000	-.2981	-.2420			.0211	.0000
270.000	-.2909	-.2299	-.0435	-.1656	-.1088	-.1300
315.000	-.3095	-.2599			-.0343	-.0284

ALPHAL(5) =   2.047   BETAL (4) =   6.187

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1952	.2836	.0427	-1.1299	-.7976	-.1425	-.0574	-.0416	-.0069	-.0027	.1402	.5188	-.4675	-.4613	-.4970
45.000		.1807	-.0350	-1.1511	-.8798	-.0427	-.0566	-.0493	-.0177	.0016	.1448				
90.000		.1626	-.0323	-1.1453	-.6228	-.0096	-.0662	-.0400	.0008	.0261	.1091		-.5880	-.5877	
135.000		.1730	-.0354	-1.1301	-.8170	-.0599	-.1036	-.0593	.0146	.0523	.1091				
180.000	1.1952	.2148	.0249	-1.1228	-.5443	-.1749	-.1490	-.0893	.0119	.0695	.0764	.3810	-.3766	-.4739	-.5204
225.000		.3199	.1127	-1.1224	-.3326	-.2697	-.1117	-.0793	.0085	.0799	.1245				
270.000		.4251	.4533	-.8006	-.5169	-.4803	-.1117	-.1348	-.0476	.0446	.2132	.4472	-.1845	.3532	-.4843
315.000		.4108	.1950	-1.0904	-.5538	-.3501	-.0489	-.0185	.0173	.0196	.1658				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0886	-.1118	.3247	.0618	.3531	.1932
45.000	-.1463	-.0283			.1518	.0168
90.000	-.1182	.0039	.2506	-.0273	.0977	-.0434
135.000	-.1065	-.0295			.0517	-.0611
180.000	-.0355	-.1478	.2072	-.1428	.0088	-.0925
225.000	-.2984	-.2753			-.0096	.0000
270.000	-.3154	-.2056	.0226	-.1486	-.1304	-.2072
315.000	-.3101	-.2397			.1882	.1304

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS15)

ALPHAL(6) =   4.209   BETAL (1) =   -6.046

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1997	.3831	.1220	-1.1126	-.6715	-.0428	-.0162	-.0038	.0282	.0519	.1838	.3977	-.4517	-.3276	-.4427
45.000		.3582	.1275	-1.1071	-.6791	-.0104	-.0119	.0050	.0340	.0616	.2116				
90.000		.2891	.0980	-1.1238	-.5357	-.0489	-.0468	-.0491	-.0023	.0843	.2162		-.6186	-.6254	
135.000		.2137	.0197	-1.1164	-.4404	-.0237	-.0445	-.0402	.0319	.1330	.2208				
180.000	1.1997	.1815	-.0326	-1.0690	-.4220	-.0363	-.0476	-.0332	.0581	.1631	.2173	.4456	-.2747	-.4627	-.4619
225.000		.2001	-.0500	-1.1788	-.3993	-.2654	-.0367	-.0189	.0708	.1811	.2562				
270.000		.3097	.3163	-.8322	-.4795	-.3451	-.0751	-.0413	.0423	.1149	.1896	.5125	-.0637	.0786	-.4457
315.000		.3816	.1973	-1.0950	-.7062	-.1510	-.0348	-.0178	.0303	.0687	.1732				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1184	-.1898	.0040	-.1438	.1100	-.0096
45.000	-.0729	-.1525			.3384	.1640
90.000	-.0679	.0063	.2154	.0510	.2129	.0593
135.000	-.0211	.0048			.1247	-.0132
180.000	.0093	-.0493	.2624	-.0558	.1013	-.0508
225.000	-.2073	-.4047			.1913	.0000
270.000	-.2709	-.2148	.1004	-.2059	-.1235	-.1517
315.000	-.2929	-.2228			-.1493	-.1552

ALPHAL(6) =   4.216   BETAL (2) =   -4.014

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1988	.3860	.1244	-1.1068	-.7073	-.0461	-.0203	-.0091	.0259	.0443	.1831	.4231	-.4388	-.3441	-.4368
45.000		.3331	.1030	-1.1033	-.7184	-.0111	-.0210	-.0110	.0209	.0493	.2011				
90.000		.2585	.0702	-1.1180	-.7981	-.0450	-.0650	-.0719	-.0191	.0712	.2015		-.5756	-.5849	
135.000		.1986	.0100	-1.1247	-.4289	-.0142	-.0608	-.0553	.0278	.1204	.1996				
180.000	1.1988	.1785	-.0267	-1.1213	-.3890	-.0439	-.0696	-.0472	.0493	.1522	.2073	.4436	-.2378	-.4500	-.4809
225.000		.2036	-.0433	-1.1727	-.3691	-.2957	-.0561	-.0361	.0605	.1658	.2494				
270.000		.3242	.3354	-.8140	-.4760	-.3775	-.0947	-.0615	.0278	.1026	.2061	.5278	-.0589	.1135	-.4562
315.000		.3965	.2107	-1.0825	-.6712	-.1706	-.0407	-.0187	.0275	.0615	.1819				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0991	-.1801	.0690	-.0895	.1421	.0194
45.000	-.0871	-.1066			.2944	.1263
90.000	-.0805	.0261	.2094	.0363	.1551	.0167
135.000	-.0294	.0003			.1178	-.0217
180.000	.0090	-.0663	.2832	-.0514	.1205	-.0347

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(6) =   4.216   BETAL (2) =   -4.014

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2067	-.3802			.1701	.0000
270.000	-.2478	-.2223	.1155	-.1748	-.1075	-.1333
315.000	-.2721	-.2299			-.1168	-.1241

ALPHAL(6) =   4.195   BETAL (3) =   .062

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1947	.3683	.1094	-1.1040	-.7431	-.0556	-.0402	-.0268	.0040	.0166	.1656	.4715	-.4539	-.4165	-.4630
45.000		.2721	.0491	-1.1206	-.7815	-.0188	-.0560	-.0464	-.0148	.0151	.1740				
90.000		.2045	.0186	-1.1368	-.8393	-.0264	-.0803	-.0895	-.0233	.0496	.1591		-.5848	-.5988	
135.000		.1817	-.0115	-1.1170	-.4022	-.0108	-.0791	-.0633	.0232	.0841	.1495				
180.000	1.1947	.1740	-.0185	-1.1224	-.3737	-.1058	-.1011	-.0687	.0297	.1140	.1625	.4043	-.2651	-.4637	-.5106
225.000		.2168	-.0242	-1.1638	-.3816	-.3452	-.0861	-.0625	.0396	.1250	.2043				
270.000		.3528	.3616	-.7998	-.4584	-.4375	-.1096	-.0868	.0151	.0806	.2261	.5070	-.0775	.1329	-.4618
315.000		.4220	.2274	-1.0737	-.6416	-.1920	-.0464	-.0287	.0178	.0430	.1789				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0818	-.1990	.1569	-.0483	.2365	.0940
45.000	-.1167	-.0559			.1901	.0593
90.000	-.0989	.0072	.2050	-.0040	.0913	-.0445
135.000	-.0802	-.0205			.1172	-.0259
180.000	-.0312	-.0745	.2496	-.0787	.1010	-.0516
225.000	-.2112	-.3269			.0844	.0000
270.000	-.2412	-.2493	.0522	-.1769	-.1162	-.1140
315.000	-.2689	-.2607			-.0591	-.0558

ALPHAL(6) =   4.185   BETAL (4) =   4.158

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1859	.3582	.1019	-1.1055	-.7455	-.0720	-.0498	-.0486	-.0120	-.0027	.1444	.5073	-.4586	-.4752	-.4886
45.000		.2161	-.0031	-1.1398	-.8280	-.0435	-.0806	-.0728	-.0401	-.0100	.1563				
90.000		.1598	-.0228	-1.1429	-.5052	-.0139	-.0825	-.0690	-.0094	.0429	.1329		-.5624	-.5726	
135.000		.1575	-.0313	-1.1121	-.4421	-.0097	-.0825	-.0517	.0199	.0659	.1214				
180.000	1.1859	.1679	-.0155	-1.1231	-.4227	-.1495	-.1156	-.0651	.0310	.0913	.1180	.4186	-.3618	-.5190	-.5059
225.000		.2351	.0088	-1.1528	-.3664	-.3667	-.0987	-.0613	.0410	.1122	.1478				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(6) = 4.185   BETAL (4) = 4.158

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3875	.3952	-.7843	-.4693	-.4537	-.1022	-.0825	.0157	.0808	.2069	.4390	-.1465	.1718	-.4601
315.000		.4570	.2564	-1.0611	-.5863	-.2013	-.0382	-.0209	.0203	.0360	.1628				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0674	-.1854	.3094	.0144	.3517	.1743
45.000	-.1441	-.0405			.1544	.0193
90.000	-.1094	-.0077	.2326	-.0325	.0466	-.0778
135.000	-.1032	-.0302			.0688	-.0539
180.000	-.0237	-.1538	.2648	-.1343	.0734	-.0581
225.000	-.2809	-.2886			.0396	.0000
270.000	-.3003	-.2019	.0666	-.1135	-.0732	-.1504
315.000	-.3075	-.2441			.1018	.0590

ALPHAL(6) = 4.151   BETAL (5) = 6.210

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1766	.3432	.0818	-1.1151	-.6926	-.0994	-.0614	-.0568	-.0247	-.0143	.1273	.5654	-.5206	-.5055	-.5043
45.000		.1767	-.0395	-1.1619	-.8509	-.0716	-.1004	-.0965	-.0575	-.0220	.1450				
90.000		.1348	-.0511	-1.1495	-.4676	-.0205	-.0834	-.0725	-.0112	.0283	.1158		-.5712	-.5731	
135.000		.1422	-.0491	-1.1275	-.4867	-.0285	-.0880	-.0533	.0218	.0595	.1077				
180.000	1.1766	.1550	-.0217	-1.1324	-.4607	-.1825	-.1282	-.0764	.0256	.0902	.0920	.3981	-.4047	-.5086	-.5171
225.000		.2363	.0182	-1.1576	-.3642	-.3829	-.1108	-.0745	.0295	.1020	.1327				
270.000		.3982	.4074	-.7941	-.4857	-.4537	-.1070	-.0914	.0076	.0682	.2091	.4263	-.1663	.2158	-.4839
315.000		.4676	.2650	-1.0622	-.5478	-.1834	-.0305	-.0220	.0172	.0287	.1571				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0222	-.1683	.4253	.0329	.4404	.2291
45.000	-.1366	-.0348			.1304	-.0045
90.000	-.1114	-.0014	.2681	-.0427	.0375	-.0901
135.000	-.0942	-.0660			.0668	-.0506
180.000	-.0055	-.1649	.2176	-.1440	.0271	-.0882
225.000	-.2729	-.3250			.0179	.0000
270.000	-.3094	-.2018	.0699	-.1359	-.1032	-.1939
315.000	-.3060	-.2413			.1744	.1172

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(7) =   5.300   BETAL (1) =   -3.994

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1865	.4168	.1481	-1.0984	-.6622	-.0381	-.0090	-.0071	.0271	.0515	.1868	.4523	-.4618	-.4050	-.4470
45.000		.3413	.1109	-1.0976	-.6884	-.0214	-.0263	-.0155	.0137	.0511	.2059		-.5819	-.5847	
90.000		.2418	.0566	-1.1165	-.6823	-.0931	-.0963	-.1127	-.0536	.0591	.2032				
135.000		.1720	-.0154	-1.1184	-.4465	-.0393	-.0674	-.0662	.0228	.1200	.1937				
180.000	1.1865	.1516	-.0508	-1.1199	-.4100	-.0654	-.0694	-.0490	.0488	.1514	.1975	.4407	-.2776	-.4447	-.4613
225.000		.1697	-.0917	-1.1849	-.3747	-.3367	-.0578	-.0374	.0572	.1688	.2376				
270.000		.3008	.3031	-.8286	-.4577	-.3591	-.0778	-.0574	.0373	.1007	.1856	.4940	-.0798	.0425	-.4331
315.000		.4130	.2392	-1.0641	-.6539	-.1405	-.0124	-.0152	.0339	.0655	.1731				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0995	-.1854	.1195	-.0680	.1838	.0509
45.000	-.0817	-.0992			.2963	.1274
90.000	-.0809	.0115	.2239	.0098	.1763	.0309
135.000	-.0292	-.0095			.0874	-.0492
180.000	.0088	-.0767	.2709	-.0761	.1255	-.0273
225.000	-.1866	-.3827			.1667	.0000
270.000	-.2539	-.2134	.1057	-.1739	-.0991	-.1261
315.000	-.2843	-.2194			-.1075	-.1097

ALPHAL(7) =   5.292   BETAL (2) =   -1.960

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1850	.4091	.1450	-1.0858	-.6826	-.0429	-.0221	-.0129	.0201	.0399	.1811	.4645	-.4510	-.4078	-.4596
45.000		.3086	.0879	-1.1004	-.7252	-.0228	-.0455	-.0336	-.0056	.0303	.1945		-.5611	-.5746	
90.000		.2136	.0336	-1.1262	-.8011	-.0740	-.1070	-.1253	-.0574	.0495	.1876				
135.000		.1658	-.0179	-1.1223	-.4138	-.0250	-.0716	-.0732	.0147	.1007	.1762				
180.000	1.1850	.1523	-.0417	-1.1185	-.3895	-.0903	-.0812	-.0551	.0395	.1393	.1873	.4133	-.2646	-.4395	-.4847
225.000		.1731	-.0798	-1.1819	-.3823	-.3728	-.0762	-.0486	.0472	.1536	.2220				
270.000		.3125	.3190	-.8201	-.4559	-.3941	-.0889	-.0662	.0330	.0990	.1922	.4868	-.0809	.0638	-.4345
315.000		.4295	.2540	-1.0574	-.6273	-.1600	-.0232	-.0152	.0330	.0589	.1760				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0945	-.1819	.1844	-.0337	.2485	.0925
45.000	-.1006	-.0537			.2522	.0948
90.000	-.0771	.0177	.2570	.0013	.1333	-.0041
135.000	-.0442	-.0229			.0995	-.0370
180.000	-.0036	-.0726	.2735	-.0671	.1137	-.0316

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(7) =   5.292   BETAL (2) = -1.960

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2054	-.3728			.1626	.0000
270.000	-.2547	-.2184	.1199	-.1523	-.0787	-.1042
315.000	-.2786	-.2466			-.0602	-.0565

ALPHAL(7) =   5.274   BETAL (3) =   .086

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1846	.4029	.1364	-1.0973	-.6924	-.0540	-.0259	-.0163	.0072	.0250	.1662	.4817	-.4560	-.4595	-.4867
45.000		.2818	.0540	-1.1220	-.7666	-.0391	-.0601	-.0521	-.0229	.0116	.1750				
90.000		.1900	.0061	-1.1417	-.7982	-.0704	-.1101	-.1183	-.0471	.0487	.1620			-.5850	-.5691
135.000		.1626	-.0290	-1.1284	-.3941	-.0258	-.0751	-.0671	.0189	.0867	.1405				
180.000	1.1846	.1522	-.0410	-1.1292	-.3861	-.1172	-.0874	-.0556	.0327	.1208	.1520	.3625	-.2896	-.4435	-.4928
225.000		.1815	-.0707	-1.1836	-.3656	-.3911	-.0759	-.0525	.0434	.1328	.1915				
270.000		.3354	.3300	-.8187	-.4155	-.4117	-.0890	-.0709	.0361	.0902	.1980	.4323	-.1016	.0619	-.4597
315.000		.4488	.2605	-1.0603	-.6025	-.1654	-.0163	-.0175	.0300	.0473	.1675				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0837	-.1830	.2090	-.0216	.2841	.1240
45.000	-.1215	-.0519			.2146	.0641
90.000	-.0968	-.0002	.2398	-.0277	.1178	-.0312
135.000	-.0527	-.0413			.1105	-.0272
180.000	-.0261	-.0842	.2390	-.0774	.0936	-.0547
225.000	-.1861	-.3487			.1032	.0000
270.000	-.2572	-.2236	.1120	-.1451	-.0742	-.0988
315.000	-.2830	-.2668			-.0154	-.0176

ALPHAL(7) =   5.253   BETAL (4) =   2.139

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1814	.3895	.1331	-1.1009	-.6927	-.0652	-.0383	-.0340	-.0040	.0071	.1575	.5167	-.4522	-.4828	-.4940
45.000		.2462	.0211	-1.1321	-.8011	-.0503	-.0791	-.0734	-.0444	-.0109	.1614				
90.000		.1648	-.0125	-1.1391	-.7144	-.0542	-.1115	-.1027	-.0298	.0439	.1483			-.5737	-.5756
135.000		.1516	-.0345	-1.1190	-.4033	-.0180	-.0799	-.0626	.0236	.0712	.1219				
180.000	1.1814	.1458	-.0365	-1.1270	-.3900	-.1397	-.0988	-.0664	.0301	.1034	.1303	.3767	-.3327	-.4936	-.5021
225.000		.1852	-.0550	-1.1730	-.3653	-.4018	-.0957	-.0641	.0455	.1245	.1591				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS15)

ALPHAL(7) = 5.253   BETAL (4) = 2.139

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3505	.3455	-.8034	-.4124	-.4276	-.1003	-.0629	.0309	.0923	.2017	.4208	-.1161	.0936	-.4495
315.000		.4621	.2733	-1.0503	-.5687	-.1709	-.0205	-.0097	.0297	.0447	.1659				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0403	-.2054	.2893	-.0123	.3409	.1709
45.000	-.1312	-.0503			.1724	.0363
90.000	-.1099	-.0092	.2434	-.0493	.0679	-.0598
135.000	-.0732	-.0412			.0818	-.0391
180.000	-.0290	-.1189	.2468	-.1107	.1041	-.0484
225.000	-.2625	-.2960			.0864	.0000
270.000	-.2789	-.2130	.0702	-.1284	-.0698	-.1087
315.000	-.2907	-.2381			.0482	.0304

ALPHAL(7) = 5.237   BETAL (5) = 4.193

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1701	.3809	.1209	-1.0990	-.6899	-.0827	-.0561	-.0495	-.0195	-.0085	.1443	.5509	-.4754	-.4997	-.5013
45.000		.2060	-.0080	-1.1418	-.8142	-.0717	-.1004	-.0918	-.0645	-.0254	.1524		-.5746	-.5678	
90.000		.1364	-.0397	-1.1387	-.4918	-.0504	-.1089	-.0975	-.0191	.0369	.1336				
135.000		.1352	-.0462	-1.1251	-.4362	-.0136	-.0842	-.0606	.0127	.0553	.1083				
180.000	1.1701	.1356	-.0389	-1.1323	-.4068	-.1720	-.1082	-.0741	.0231	.0961	.1083	.3961	-.3839	-.5210	-.5091
225.000		.1844	-.0443	-1.1746	-.3763	-.4196	-.1051	-.0722	.0404	.1175	.1340				
270.000		.3612	.3583	-.8016	-.4275	-.4397	-.0966	-.0729	.0284	.0853	.2018	.3992	-.1522	.0974	-.4573
315.000		.4757	.2874	-1.0496	-.5506	-.1853	-.0202	-.0099	.0269	.0413	.1621				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0112	-.2210	.3958	-.0027	.4289	.2252
45.000	-.1364	-.0409			.1411	.0136
90.000	-.1094	-.0120	.2706	-.0566	.0382	-.0886
135.000	-.0937	-.0479			.0610	-.0554
180.000	-.0143	-.1625	.2653	-.1323	.0768	-.0531
225.000	-.2601	-.3045			.0506	.0000
270.000	-.2863	-.2018	.0816	-.1166	-.0808	-.1542
315.000	-.2917	-.2303			.1095	.0826

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)   (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA		
SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT		MACH =	1.100	RN/FT = 2.250
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT		ELV-IB =	8.000	ELV-OB = 6.000
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT		RUDDER =	.000	SPDBRK = .000
SCALE = .0300 SCALE					

ALPHAL(1) = -6.698   BETAL (1) = -3.888

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3146	.2432	.0959	-.6946	-.6012	-.2205	-.1241	-.1429	-.1412	-.0382	.1880	.3584	-.2268	-.2978	-.4936
45.000		.2682	.1470	-.6843	-.5398	-.2401	-.2052	-.2031	-.2343	-.0859	.1659				
90.000		.3573	.2532	-.6569	-.4453	-.3123	-.3064	-.3328	-.3362	-.1866	.0768			-.4905	-.4829
135.000		.5084	.3632	-.6060	-.3501	.0572	-.0971	-.1659	-.1760	.0216	.2809				
180.000	1.3146	.6071	.4444	-.5847	-.2131	.1720	.0021	-.0875	-.1315	.1302	.3745	.6965	-.0256	-.2968	-.5752
225.000		.5783	.5167	-.5614	-.2546	.1767	-.0266	-.1002	-.1029	.1370	.4466				
270.000		.3769	.4204	-.5148	-.3360	-.4106	-.5903	-.2322	-.0804	.0308	.3337	.8487	.2967	.3039	-.3705
315.000		.2378	.0078	-.7545	-.5557	-.4487	-.1046	-.1159	-.0753	.0227	.3242				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.2008	-.2942	-.1012	-.2341	-.1197	-.2133
45.000	-.1562	-.2198			-.0698	-.0131
90.000	-.2975	-.1800	.1215	-.0729	.2120	.1461
135.000	-.0705	-.0850			.4811	.3383
180.000	-.1148	-.1023	.5256	.0415	.3811	.2329
225.000	-.3503	-.3334			.0747	.0000
270.000	-.3678	-.2871	-.0555	-.2358	-.1979	-.1816
315.000	-.3499	-.2945			-.1883	-.2065

ALPHAL(1) = -6.649   BETAL (2) = -1.836

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3072	.2140	.0919	-.6826	-.5929	-.2143	-.0996	-.1221	-.1157	-.0178	.2210	.4160	-.2253	-.3338	-.4818
45.000		.2393	.1395	-.6751	-.5494	-.1957	-.1593	-.1716	-.2200	-.1196	.1762				
90.000		.3094	.2233	-.6552	-.4610	-.3448	-.2968	-.3103	-.2930	-.1468	.0683			-.4954	-.4832
135.000		.4681	.3398	-.6135	-.3598	.0393	-.1467	-.1883	-.2133	.0046	.2546				
180.000	1.3072	.6036	.4513	-.5811	-.1451	.1432	-.0375	-.1109	-.1719	.1126	.3316	.6635	-.1189	-.3380	-.6044
225.000		.5786	.5364	-.5521	-.1003	.1661	-.0535	-.1177	-.1152	.1277	.3937				
270.000		.3628	.4226	-.5336	-.2841	-.4075	-.5520	-.1961	-.0646	.0496	.3394	.7860	.2312	.2140	-.3925
315.000		.2153	-.0003	-.7607	-.5512	-.4370	-.1095	-.0976	-.0687	.0188	.3110				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(1) = -6.649   BETAL (2) = -1.836

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1931	-.2772	-.0596	-.2011	-.0917	-.1820
45.000	-.1534	-.2168			-.0657	-.0585
90.000	-.2630	-.1372	.0327	-.0961	.1751	.1246
135.000	-.1102	-.0893			.4547	.3185
180.000	-.1470	-.1399	.5014	.0068	.3574	.2244
225.000	-.3504	-.3016			.0424	.0000
270.000	-.3379	-.2762	-.0856	-.2246	-.1912	-.1939
315.000	-.3305	-.3002			-.1540	-.1698

ALPHAL(1) = -6.575   BETAL (3) =   .242

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
.000	1.2928	.1948	.1020	-.6887	-.5871	-.1872	-.1108	-.1139	-.1242	-.0200	.2448	.4408	-.2803	-.4203	-.4952
45.000		.2254	.1343	-.6874	-.5509	-.1486	-.1616	-.1585	-.2223	-.1237	.1752				
90.000		.2893	.1972	-.6788	-.4835	-.3626	-.2981	-.3146	-.2741	-.1353	.1302		-.5194	-.5024	
135.000		.4391	.3065	-.6342	-.3453	-.0036	-.2168	-.2477	-.2578	-.0391	.2472				
180.000	1.2928	.5900	.4515	-.5895	.1176	.0864	-.1088	-.1722	-.1783	.0766	.2752	.6321	-.2025	-.3957	-.6398
225.000		.5834	.5525	-.5515	.2561	.1433	-.0913	-.1561	-.1442	.1090	.3196				
270.000		.3429	.4175	-.5322	.0685	-.4141	-.5694	-.2161	-.0879	.0387	.3172	.7226	.1793	.1878	-.5606
315.000		.1917	-.0018	-.7645	-.5380	-.4055	-.1187	-.1084	-.0875	.0124	.2822				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1719	-.3065	.0545	-.1737	-.0086	-.1215
45.000	-.1406	-.2016			-.0429	-.1102
90.000	-.2514	-.1041	.0140	-.1054	.1226	.0759
135.000	-.1248	-.0970			.3891	.2950
180.000	-.1745	-.1694	.4594	-.0423	.3369	.2080
225.000	-.3360	-.2995			-.1177	.0000
270.000	-.3265	-.2877	-.1301	-.2554	-.2129	-.1986
315.000	-.3136	-.3256			-.1469	-.1231

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(1) =   -6.541   BETAL (4) =   2.309

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2815	.1660	.1077	-.6860	-.5536	-.1929	-.1142	-.0957	-.1101	.0097	.2049	.5246	-.3745	-.4065	-.5260
45.000		.2096	.1333	-.6836	-.5499	-.1335	-.1385	-.1460	-.1857	-.0490	.1503				
90.000		.2504	.1679	-.6853	-.4999	-.3910	-.2819	-.3053	-.2481	-.0575	.1759		-.5291	-.5171	
135.000		.3959	.2641	-.6394	-.3172	-.0980	-.2764	-.2895	-.2842	-.0480	.2236				
180.000	1.2815	.5829	.4461	-.5833	.1374	.0423	-.1686	-.2118	-.2106	.0601	.2056	.6307	-.2639	-.4559	-.6156
225.000		.5905	.5635	-.5317	.2498	.1332	-.1235	-.1775	-.1427	.1060	.2431				
270.000		.3290	.4286	-.5067	.1139	-.4187	-.5883	-.2135	-.0797	.0449	.2550	.6736	.1842	.2533	-.4806
315.000		.1712	.0038	-.7600	-.5451	-.4055	-.1484	-.0909	-.0776	.0207	.2491				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1122	-.3421	.1305	-.2242	.2517	.1281
45.000	-.1671	-.2014			.0048	-.1071
90.000	-.2461	-.0936	.0463	-.0975	.0514	.0021
135.000	-.1724	-.1139			.3106	.2558
180.000	-.1953	-.2227	.4058	-.0794	.2565	.1552
225.000	-.3526	-.3015			-.0630	.0000
270.000	-.3401	-.3052	-.1640	-.2434	-.1866	-.1603
315.000	-.3052	-.3661			-.0760	-.0426

ALPHAL(1) =   -6.521   BETAL (5) =   4.360

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2593	.0955	.1055	-.6891	-.5630	-.1787	-.1070	-.0875	-.0909	.0346	.1800	.4348	-.3567	-.4224	-.5350
45.000		.1563	.1257	-.6850	-.5512	-.1051	-.1313	-.1323	-.1635	-.0026	.1749				
90.000		.1934	.1388	-.6936	-.5214	-.4038	-.2777	-.2866	-.2264	.0052	.2070		-.5578	-.5639	
135.000		.3352	.2229	-.6576	-.1889	-.2014	-.3489	-.3331	-.2972	-.0402	.2042				
180.000	1.2593	.5371	.4461	-.5819	.1028	.0007	-.2209	-.2466	-.2433	.0438	.0889	.6520	-.2495	-.5216	-.6041
225.000		.5532	.5779	-.4569	.2353	.1318	-.1576	-.1864	-.1081	.1015	.1844				
270.000		.2414	.4234	-.5039	.1224	-.3312	-.5370	-.2090	-.0651	.0547	.2244	.6479	.1832	.2612	-.4875
315.000		.0505	.0340	-.7499	-.5444	-.3814	-.1570	-.1026	-.0774	.0271	.1660				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1123	-.3368	.1161	-.1005	.3619	.2585
45.000	-.1546	-.2209			.0321	-.0655
90.000	-.2457	-.0962	.0747	-.0461	-.0032	-.0741
135.000	-.2064	-.1506			.2372	.1569
180.000	-.1685	-.2618	.2606	-.1378	.0660	-.0388

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(1) = -6.521   BETAL (5) =   4.360

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3399	-.3349			-.0837	.0000
270.000	-.3355	-.3099	-.0940	-.2104	-.1748	-.2158
315.000	-.2959	-.3647			-.0306	-.0122

ALPHAL(2) = -4.503   BETAL (1) = -6.042

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3303	.3087	.1592	-.6782	-.5694	-.2348	-.0696	-.1066	-.1127	.0027	.2502	.3404	-.2945	-.1826	-.3950
45.000		.3474	.2195	-.6683	-.4940	-.2010	-.1244	-.1490	-.1911	-.0372	.2322		-.4774	-.4695	
90.000		.4301	.3159	-.6377	-.4089	-.1935	-.1829	-.2243	-.2670	-.1223	.1586				
135.000		.5154	.3745	-.6056	-.3524	.1066	.0122	-.0789	-.1005	.0973	.3524				
180.000	1.3303	.5470	.3899	-.6059	-.3555	.2047	.0498	-.0477	-.0566	.1729	.4395	.7271	-.0155	-.2948	-.5251
225.000		.5346	.4499	-.5968	-.3507	.1891	.0033	-.0761	-.0773	.1740	.5117				
270.000		.4410	.5000	-.4569	-.4711	-.3798	-.5787	-.2681	-.0988	.0357	.2601	.9361	.3713	.3802	-.3419
315.000		.3330	.1324	-.7138	-.5907	-.3926	-.0747	-.0908	-.0668	.0473	.3043				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1449	-.2901	-.1905	-.2799	-.1466	-.1994
45.000	-.1569	-.2769			.0771	.1065
90.000	-.3285	-.1689	-.0096	.0202	.2902	.1840
135.000	.0149	-.0447			.4580	.3371
180.000	-.1087	-.0301	.4803	.1189	.3734	.2247
225.000	-.3246	-.3872			.2025	.0000
270.000	-.3530	-.3171	-.0247	-.2508	-.2079	-.1963
315.000	-.3327	-.2989			-.2100	-.2208

ALPHAL(2) = -4.460   BETAL (2) = -3.983

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3269	.2887	.1537	-.6703	-.5642	-.2157	-.0679	-.0926	-.0987	-.0055	.2498	.3402	-.2691	-.2499	-.4104
45.000		.3236	.2092	-.6642	-.5024	-.1459	-.0978	-.1367	-.1606	-.0392	.2455		-.4793	-.4725	
90.000		.3945	.2928	-.6447	-.4234	-.2080	-.1862	-.2187	-.2467	-.1165	.1702				
135.000		.4850	.3586	-.6084	-.3690	.0793	-.0198	-.0933	-.1376	.0684	.3316				
180.000	1.3269	.5395	.3990	-.6006	-.3353	.1847	.0198	-.0673	-.1196	.1460	.4065	.7126	-.0733	-.3199	-.5356
225.000		.5371	.4696	-.5865	-.3346	.1874	-.0249	-.0981	-.1121	.1522	.4699				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(2) = -4.460   BETAL (2) = -3.983

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4261	.5028	-.4980	-.4541	-.3552	-.5851	-.2413	-.0893	.0357	.2965	.8775	.3159	.3495	-.3291
315.000		.3061	.1246	-.7154	-.5068	-.4217	-.0871	-.0803	-.0688	.0279	.2994				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1611	-.2765	-.1363	-.2284	-.1172	-.1815
45.000	-.1560	-.2073			.0525	.0779
90.000	-.2911	-.1512	-.0340	.0081	.2592	.1713
135.000	-.0275	-.0620			.4488	.3337
180.000	-.1133	-.0728	.4672	.0963	.3725	.2264
225.000	-.3302	-.3431			.1230	.0000
270.000	-.3465	-.3036	-.0426	-.2291	-.1822	-.1786
315.000	-.3208	-.2965			-.1767	-.2113

ALPHAL(2) = -4.394   BETAL (3) = .152

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3125	.2401	.1609	-.6676	-.5469	-.2051	-.0662	-.0631	-.0843	-.0063	.2552	.4091	-.2874	-.3689	-.4497
45.000		.2692	.1921	-.6635	-.5111	-.0935	-.0764	-.1082	-.1195	-.0233	.2331		-.5088	-.5002	
90.000		.3216	.2401	-.6549	-.4596	-.2135	-.1762	-.2182	-.1926	-.0672	.1950				
135.000		.4118	.3117	-.6237	-.3797	.0191	-.1185	-.1714	-.1910	.0161	.2899				
180.000	1.3125	.5146	.4063	-.5961	-.2671	.1260	-.0840	-.1441	-.1485	.0971	.3089	.6645	-.2421	-.4301	-.5783
225.000		.5300	.5012	-.5708	-.2654	.1701	-.1014	-.1451	-.1444	.1233	.3236				
270.000		.3905	.5054	-.4929	-.3979	-.3244	-.5841	-.1970	-.0805	.0389	.2964	.7034	.0969	.1578	-.4958
315.000		.2548	.1235	-.7127	-.4714	-.4225	-.0932	-.0758	-.0652	.0141	.2489				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1551	-.3399	.0400	-.1504	.0407	-.0603
45.000	-.0805	-.2034			.0185	-.0435
90.000	-.2190	-.0920	-.0035	-.0343	.1507	.1037
135.000	-.1089	-.0747			.3322	.2631
180.000	-.1831	-.1289	.3935	.0195	.3178	.1991
225.000	-.3233	-.3091			.0335	.0000
270.000	-.3111	-.2762	-.0795	-.2340	-.1887	-.1750
315.000	-.2928	-.3324			-.1452	-.1328

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ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(2) = -4.365   BETAL (4) =   4.270

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2886	.1974	.1620	-.6771	-.5472	-.2039	-.0836	-.0569	-.0785	.0396	.2208	.4792	-.3806	-.4445	-.4995
45.000		.2318	.1730	-.6730	-.5286	-.0949	-.0795	-.0912	-.1234	.0451	.2413		-.5431	-.5682	
90.000		.2586	.1885	-.6757	-.5110	-.2367	-.1837	-.2036	-.1834	.0434	.2416				
135.000		.3418	.2380	-.6519	-.4284	-.0908	-.2355	-.2584	-.2194	.0116	.2321				
180.000	1.2886	.4906	.3903	-.6099	-.0298	.0003	-.2176	-.2218	-.2081	.0806	.1604	.6242	-.2261	-.4844	-.5613
225.000		.5333	.5233	-.5682	.1950	.1232	-.1786	-.1813	-.0948	.1147	.2075				
270.000		.3524	.5240	-.4673	-.1775	-.3383	-.4264	-.1847	-.0600	.0666	.2437	.6039	.1639	.2470	-.4772
315.000		.2108	.1366	-.7206	-.4958	-.3986	-.1176	-.0812	-.0583	.0410	.1858				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1371	-.3079	.0933	-.0448	.3055	.2370
45.000	-.0570	-.2571			.1598	.0371
90.000	-.1948	-.0657	.0591	-.0081	.0330	-.0592
135.000	-.1762	-.0925			.1979	.1431
180.000	-.1497	-.2321	.2743	-.1202	.0810	-.0244
225.000	-.3103	-.3432			-.0496	.0000
270.000	-.3218	-.2927	-.0345	-.1881	-.1500	-.1858
315.000	-.2771	-.3577			-.0451	-.0152

ALPHAL(2) = -4.350   BETAL (5) =   6.336

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2738	.1509	.1578	-.6718	-.5331	-.2037	-.0897	-.0568	-.0693	.0441	.2062	.3924	-.3109	-.4057	-.4934
45.000		.1825	.1673	-.6735	-.5304	-.0792	-.0832	-.0806	-.1182	.0495	.2389		-.5423	-.5366	
90.000		.2058	.1690	-.6721	-.5226	-.2398	-.1808	-.1897	-.1777	.0512	.2284				
135.000		.2796	.2060	-.6577	-.4216	-.1608	-.2828	-.2895	-.1755	.0124	.1848				
180.000	1.2738	.4464	.3819	-.6040	.0567	-.0323	-.2616	-.2471	-.1823	.0676	.1003	.4737	-.2814	-.4577	-.5301
225.000		.5071	.5148	-.5614	.2190	.1151	-.2208	-.2078	-.0776	.1020	.1681				
270.000		.2978	.5412	-.4412	.0075	-.2991	-.3396	-.1712	-.0657	.0741	.2134	.4229	.0199	.0226	-.4549
315.000		.1423	.1536	-.7084	-.5096	-.3975	-.1212	-.0836	-.0599	.0418	.1768				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1298	-.2775	.1495	.0395	.3312	.2366
45.000	-.0584	-.2680			.3349	.2113
90.000	-.1761	-.0957	.1204	-.0373	.0462	-.0611
135.000	-.1529	-.1177			.0592	-.0364
180.000	-.1925	-.1983	.1491	-.1487	.0037	-.0766

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(2) = -4.350   BETAL (5) =   6.336

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3086	-.3796			-.0528	.0000
270.000	-.3272	-.2828	-.0109	-.1755	-.1799	-.2278
315.000	-.2930	-.3376			.0177	.0253

ALPHAL(3) = -2.298   BETAL (1) = -6.072

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3358	.3542	.2132	-.6665	-.5319	-.1909	-.0549	-.0730	-.0836	.0550	.2697	.3551	-.3175	.0994	-.4089
45.000		.3905	.2643	-.6562	-.4603	-.2221	-.0375	-.0785	-.1325	.0091	.2738		-.4478	-.4466	
90.000		.4437	.3336	-.6328	-.4018	-.0885	-.0795	-.1260	-.1660	-.0226	.2506				
135.000		.4766	.3501	-.6124	-.3842	.1354	.0654	-.0282	-.0671	.1432	.3892				
180.000	1.3358	.4777	.3370	-.6198	-.4184	.2041	.0665	-.0295	-.0464	.2051	.4536	.7079	-.0672	-.3004	-.4812
225.000		.4849	.3871	-.6202	-.4087	.1300	.0097	-.0668	-.0702	.2074	.5156				
270.000		.4598	.5399	-.4965	-.5609	-.3702	-.5060	-.1739	-.0518	.0926	.2850	.9126	.3860	.3781	-.3221
315.000		.3782	.2214	-.6786	-.5562	-.3384	-.0997	-.0761	-.0369	.0647	.3020				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1306	-.2752	-.2056	-.2620	-.0754	-.0989
45.000	-.1056	-.2847			.1429	.1282
90.000	-.2263	-.1232	.0258	.0744	.3075	.2271
135.000	.0292	-.0796			.3786	.2866
180.000	-.1236	-.0148	.4121	.1277	.3324	.2054
225.000	-.2975	-.3784			.1765	.0000
270.000	-.3263	-.3044	-.0241	-.2408	-.1947	-.1845
315.000	-.3053	-.3003			-.2025	-.2042

ALPHAL(3) = -2.236   BETAL (2) = -1.985

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3248	.3090	.2096	-.6604	-.5167	-.2031	-.0394	-.0404	-.0633	.0077	.2766	.3695	-.2710	-.1763	-.3888
45.000		.3214	.2415	-.6532	-.4778	-.1454	-.0103	-.0664	-.0937	.0005	.2834		-.4576	-.4640	
90.000		.3622	.2860	-.6398	-.4326	-.1049	-.0667	-.1327	-.1361	-.0117	.2490				
135.000		.4122	.3124	-.6162	-.3999	.0740	.0017	-.0725	-.1253	.0889	.3527				
180.000	1.3248	.4530	.3440	-.6112	-.3675	.1590	.0013	-.0821	-.1032	.1481	.3969	.6950	-.1609	-.3575	-.5021
225.000		.4716	.4157	-.6047	-.3698	.1297	-.0493	-.1067	-.1113	.1593	.4323				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(3) = -2.236   BETAL (2) = -1.985

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4331	.5562	-.4782	-.5615	-.3580	-.4869	-.1741	-.0661	.0634	.2966	.8260	.2947	.3338	-.3119
315.000		.3419	.2247	-.6760	-.4917	-.3785	-.0862	-.0674	-.0542	.0274	.2737				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1653	-.2843	-.1300	-.1700	-.0058	-.0352
45.000	-.1131	-.2464			.1287	.0894
90.000	-.2010	-.0903	.0006	.0547	.2341	.1698
135.000	-.0366	-.0643			.3459	.2587
180.000	-.1512	-.0893	.3849	.0793	.3254	.1869
225.000	-.3228	-.3206			.0490	.0000
270.000	-.3218	-.2864	-.0917	-.2154	-.1799	-.1834
315.000	-.2927	-.3175			-.2028	-.1879

ALPHAL(3) = -2.216   BETAL (3) = 2.153

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3108	.2676	.2093	-.6603	-.5113	-.2234	-.0488	-.0361	-.0632	.0377	.2391	.3987	-.3644	-.3173	-.4484
45.000		.2858	.2179	-.6531	-.4958	-.1163	-.0258	-.0580	-.0968	.0397	.2698				
90.000		.3112	.2419	-.6520	-.4775	-.1221	-.0916	-.1317	-.1413	.0483	.2531			-.5238	-.5532
135.000		.3658	.2721	-.6299	-.4296	.0046	-.0954	-.1550	-.1657	.0547	.2817				
180.000	1.3108	.4365	.3534	-.6154	-.3312	.0746	-.1105	-.1660	-.1770	.1058	.2510	.5846	-.2778	-.4755	-.5474
225.000		.4763	.4523	-.5972	-.3241	.1182	-.1327	-.1574	-.1228	.1447	.2718				
270.000		.4094	.5744	-.4630	-.5407	-.3519	-.3768	-.1766	-.0591	.0615	.2633	.7089	.0984	.2739	-.5316
315.000		.2944	.2299	-.6783	-.4975	-.3936	-.0875	-.0645	-.0523	.0360	.2159				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1441	-.2844	-.0204	-.0985	.2080	.1678
45.000	-.0200	-.2469			.1554	.0362
90.000	-.1709	-.0607	.0261	.0412	.0986	.0098
135.000	-.1286	-.0512			.1756	.1168
180.000	-.2040	-.1276	.2939	-.0239	.2222	.1181
225.000	-.2679	-.3309			.0362	.0000
270.000	-.2905	-.2747	-.0434	-.1954	-.1505	-.1493
315.000	-.2675	-.3255			-.1242	-.0876

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ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(3) = -2.195   BETAL (4) =   6.268

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2890	.2192	.2017	-.6663	-.5033	-.2488	-.0700	-.0474	-.0560	.0486	.2199	.3541	-.2523	-.2746	-.4413
45.000		.2237	.1908	-.6676	-.5165	-.0964	-.0549	-.0498	-.0899	.0639	.2568		-.5347	-.5058	
90.000		.2413	.1963	-.6690	-.5152	-.1275	-.1029	-.1232	-.1654	.0721	.2551				
135.000		.2781	.2159	-.6548	-.4549	-.0900	-.1849	-.2133	-.1036	.0690	.2278	.5123	-.2238	-.4091	-.5130
180.000	1.2890	.3879	.3359	-.6260	-.3170	-.0348	-.2141	-.2250	-.0968	.1025	.1470				
225.000		.4543	.4680	-.5992	-.2569	.0817	-.1945	-.1835	-.0459	.1299	.2152	.5840	.0974	.1482	-.4945
270.000		.3645	.5997	-.4288	-.5403	-.3588	-.3392	-.1534	-.0368	.0938	.2660				
315.000		.2674	.2482	-.6795	-.4953	-.3488	-.1118	-.0697	-.0415	.0522	.2230				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1651	-.2118	.0799	.0254	.1963	.1244
45.000	-.0302	-.2388			.3199	.2178
90.000	-.1630	-.0887	.1004	-.0321	.0788	-.0181
135.000	-.1421	-.0884			.0836	-.0121
180.000	-.1414	-.1752	.1596	-.1249	.0080	-.0725
225.000	-.2996	-.3824			-.0174	.0000
270.000	-.3135	-.2804	.0251	-.1656	-.1393	-.1853
315.000	-.2780	-.3355			.0100	.0373

ALPHAL(4) =   -.102   BETAL (1) = -6.086

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3367	.4027	.2594	-.6523	-.4922	-.1527	-.0164	-.0476	-.0559	.0654	.3139	.3700	-.2432	-.0699	-.4056
45.000		.4264	.3024	-.6420	-.4329	-.2103	.0238	-.0192	-.0748	.0473	.3341		-.4252	-.4245	
90.000		.4425	.3419	-.6283	-.3956	-.1612	.0375	-.0206	-.0789	.0770	.3317				
135.000		.4278	.3113	-.6260	-.4234	.0843	.0883	.0082	-.0534	.1777	.4180				
180.000	1.3367	.4102	.2787	-.6348	-.4661	.1564	.0735	-.0161	-.0514	.2299	.4668	.6857	-.0874	-.2941	-.4382
225.000		.4271	.3151	-.6470	-.4940	-.0569	.0279	-.0549	-.0763	.2355	.5224				
270.000		.4631	.5564	-.4895	-.5546	-.3322	-.3659	-.1605	-.0534	.1079	.2590	.9103	.3903	.3590	-.3117
315.000		.4195	.2976	-.6538	-.5041	-.2726	-.0991	-.0501	-.0261	.0762	.3156				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1490	-.3216	-.1423	-.2123	.0371	.0244
45.000	-.0434	-.2748			.2251	.1726
90.000	-.1483	-.0996	.0584	.1133	.2024	.2028
135.000	.0298	-.0756			.3750	.2627
180.000	-.1139	-.0193	.3617	.1123	.2773	.1596

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(4) =   -.102   BETAL (1) =   -6.086

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2735	-.3931			.1493	.0000
270.000	-.3175	-.3037	-.0215	-.2363	-.1841	-.1745
315.000	-.2925	-.2965			-.2044	-.1847

ALPHAL(4) =   -.078   BETAL (2) =   -4.031

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3328	.3799	.2574	-.6549	-.4854	-.1624	-.0062	-.0346	-.0551	.0245	.3039	.4000	-.2206	-.1128	-.3895
45.000		.3909	.2824	-.6474	-.4448	-.2027	.0332	-.0218	-.0691	.0207	.3258				
90.000		.4019	.3130	-.6371	-.4174	-.1421	.0394	-.0338	-.0852	.0654	.3128		-.4260	-.4252	
135.000		.4023	.2951	-.6220	-.4293	.0694	.0781	-.0108	-.0857	.1501	.3889				
180.000	1.3328	.3933	.2848	-.6288	-.4546	.1368	.0582	-.0448	-.0755	.2036	.4385	.6840	-.0991	-.3154	-.4534
225.000		.4153	.3246	-.6390	-.4853	-.0483	.0027	-.0787	-.0864	.2076	.4907				
270.000		.4503	.5648	-.4790	-.5140	-.3472	-.3271	-.1596	-.0489	.0950	.2824	.8853	.3622	.3588	-.3150
315.000		.4047	.2989	-.6515	-.5019	-.2808	-.0863	-.0588	-.0356	.0471	.3028				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1513	-.3061	-.1069	-.1753	.0591	.0521
45.000	-.0524	-.2358			.2155	.1677
90.000	-.1489	-.0798	.0420	.1148	.2555	.1800
135.000	.0065	-.0679			.3328	.2326
180.000	-.1373	-.0361	.3458	.1077	.2812	.1675
225.000	-.2953	-.3693			.1441	.0000
270.000	-.3078	-.2952	-.0292	-.2089	-.1651	-.1576
315.000	-.2804	-.3145			-.2020	-.1753

ALPHAL(4) =   -.061   BETAL (3) =   .074

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3191	.3335	.2607	-.6522	-.4759	-.1677	-.0260	-.0191	-.0523	.0046	.2681	.4320	-.3178	-.2786	-.3999
45.000		.3270	.2579	-.6508	-.4641	-.1647	.0096	-.0225	-.0736	.0261	.^16				
90.000		.3373	.2726	-.6450	-.4526	-.0841	.0028	-.0564	-.1041	.0660	.2951		-.4706	-.4943	
135.000		.3555	.2730	-.6285	-.4414	.0310	.0151	-.0718	-.1182	.1123	.3415				
180.000	1.3191	.3655	.2967	-.6265	-.4255	.0872	-.0099	-.1048	-.1312	.1536	.3678	.6841	-.2312	-.4170	-.5098
225.000		.4129	.3603	-.6299	-.4467	-.0431	-.0517	-.1175	-.1298	.1658	.3681				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(4) =   -.061   BETAL (3) =   .074

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4276	.5876	-.4651	-.4961	-.3519	-.2515	-.1476	-.0619	.0620	.2835	.7902	.2520	.3025	-.4706
315.000		.3816	.3084	-.6502	-.4707	-.2991	-.0688	-.0502	-.0517	.0228	.2586				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1419	-.2800	-.0661	-.1188	.1508	.1101
45.000	-.0392	-.2486			.1505	.0831
90.000	-.1344	-.0661	.0379	.08?7	.2018	.1217
135.000	-.0623	-.0414			.2644	.1898
180.000	-.1610	-.0525	.2757	.0619	.2357	.1287
225.000	-.2915	-.2973			.0448	.0000
270.000	-.2871	-.2587	-.0541	-.1999	-.1585	-.1546
315.000	-.2584	-.3034			-.1544	-.1205

ALPHAL(4) =   -.051   BETAL (4) =   4.179

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3016	.3006	.2542	-.6507	-.4617	-.2024	-.0523	-.0311	-.0585	.0445	.2458	.3991	-.2300	-.3381	-.4117
45.000		.2762	.2268	-.6582	-.4887	-.1615	-.0229	-.0332	-.0907	.0612	.2621				
90.000		.2766	.2303	-.6524	-.4897	-.0717	-.0277	-.0691	-.1451	.1037	.2573		-.5130	-.5096	
135.000		.3006	.2392	-.6388	-.4718	-.0386	-.0602	-.1273	-.1407	.1187	.2675				
180.000	1.3016	.3442	.2958	-.6286	-.4025	-.0247	-.1091	-.1625	-.1258	.1381	.2243	.5740	-.2187	-.4593	-.4856
225.000		.4043	.3844	-.6232	-.3996	-.0392	-.1296	-.1420	-.0444	.1696	.2468				
270.000		.4122	.6109	-.4431	-.5135	-.3358	-.2429	-.1314	-.0359	.0920	.2914	.7105	.1362	.3683	-.4860
315.000		.3617	.3326	-.6452	-.4547	-.2953	-.0930	-.0462	-.0345	.0610	.2492				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1201	-.2168	.0774	-.0085	.1651	.1020
45.000	-.0732	-.1811			.2091	.1235
90.000	-.1249	-.0834	.1013	-.0044	.1548	.0372
135.000	-.1225	-.0336			.0901	.0095
180.000	-.1077	-.1488	.2626	-.0872	.1163	.0095
225.000	-.2616	-.3794			.0345	.0000
270.000	-.2848	-.2713	.0631	-.1473	-.0958	-.1366
315.000	-.2642	-.3164			.0000	.0350

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(4) =   -.059   BETAL (5) =   6.233

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2919	.2741	.2456	-.6546	-.4488	-.2292	-.0718	-.0475	-.0366	.0384	.2516	.4635	-.2580	-.3780	-.4499
45.000		.2415	.2062	-.6636	-.5040	-.1369	-.0431	-.0462	-.0764	.0667	.2679				
90.000		.2470	.2086	-.6625	-.5070	-.0595	-.0458	-.0781	-.1373	.1032	.2611		-.5424	-.5723	
135.000		.2679	.2179	-.6471	-.4850	-.0717	-.0989	-.1548	-.0986	.1080	.2591				
180.000	1.2919	.3246	.2903	-.6329	-.3835	-.0618	-.1592	-.1921	-.0741	.1308	.1872	.5385	-.2023	-.3997	-.4922
225.000		.3937	.3909	-.6241	-.3729	-.0118	-.1784	-.1641	-.0345	.1545	.2458				
270.000		.3975	.6186	-.4349	-.5119	-.3070	-.2432	-.1360	-.0301	.1037	.2921	.6510	.1753	.2861	-.4777
315.000		.3511	.3459	-.6447	-.4388	-.2860	-.1102	-.0503	-.0188	.0639	.2455				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1142	-.2157	.1473	.0310	.2838	.2056
45.000	-.0836	-.1631			.1459	.0516
90.000	-.1345	-.0926	.1552	-.0297	.1486	.0540
135.000	-.1268	-.0699			.0725	-.0199
180.000	-.1079	-.1702	.1802	-.1185	.0211	-.0725
225.000	-.2981	-.4008			.0111	.0000
270.000	-.3184	-.2780	.0856	-.1414	-.0976	-.1568
315.000	-.2889	-.3211			.0749	.0944

ALPHAL(5) =   2.094   BETAL (1) =   -6.060

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3329	.4510	.3057	-.6460	-.4477	-.1272	.0104	-.0081	-.0272	.0622	.3179	.4378	-.1999	-.2349	-.3760
45.000		.4592	.3324	-.6435	-.4105	-.1872	.0607	.0259	-.0334	.0725	.3629				
90.000		.4307	.3262	-.6394	-.4159	-.2218	.0888	.0400	-.0371	.1325	.3670		-.4090	-.3929	
135.000		.3788	.2647	-.6375	-.4613	.0118	.0933	.0259	-.0424	.2030	.4209				
180.000	1.3329	.3469	.2186	-.6483	-.5185	.0579	.0669	-.0094	-.0526	.2521	.4676	.6597	-.0859	-.2778	-.3932
225.000		.3685	.2272	-.6758	-.4174	-.2163	.0292	-.0292	-.0697	.2582	.5253				
270.000		.4499	.5339	-.4982	-.4642	-.2818	-.0972	-.1060	-.0567	.0893	.1671	.9285	.4361	.3499	-.3012
315.000		.4633	.3637	-.6341	-.4469	-.1958	-.0417	-.0296	-.0148	.0791	.3080				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1295	-.3188	-.0664	-.1701	.1427	.1019
45.000	.0045	-.2900			.3100	.2467
90.000	-.0951	-.0700	.1129	.1211	.2560	.1752
135.000	.0424	-.0693			.3278	.2412
180.000	-.0751	-.0189	.2946	.0886	.2351	.1107

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(5) =   2.094   BETAL (1) =   -6.060

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2538	-.3855			.2125	.0000
270.000	-.2937	-.2836	-.0127	-.2167	-.1640	-.1485
315.000	-.2771	-.3178			-.1859	-.1629

ALPHAL(5) =   2.097   BETAL (2) =   -1.975

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3223	.4099	.3048	-.6352	-.4279	-.1180	-.0022	-.0053	-.0230	.0108	.2836	.4422	-.2239	-.2705	-.3636
45.000		.3811	.2979	-.6355	-.4295	-.1723	.0480	.0111	-.0401	.0173	.3261		-.4181	-.4187	
90.000		.3517	.2880	-.6352	-.4366	-.1814	.0730	.0080	-.0702	.0843	.3214				
135.000		.3270	.2568	-.6268	-.4653	-.0010	.0754	-.0073	-.0814	.1547	.3673	.6435	-.1825	-.3352	-.4150
180.000	1.3223	.3202	.2428	-.6329	-.4896	.0246	.0456	-.0408	-.0875	.1959	.4071				
225.000		.3482	.2637	-.6578	-.3837	-.2060	.0159	-.0494	-.0987	.1976	.4370	.7617	.2918	.2363	-.3081
270.000		.4321	.5625	-.4734	-.4009	-.2970	-.0555	-.0504	-.0474	.1023	.2550				
315.000		.4331	.3811	-.6194	-.4282	-.2093	-.0500	-.0063	-.0174	.0479	.2696				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1047	-.2598	-.0335	-.0893	.1297	.0968
45.000	-.0400	-.2260			.2415	.1834
90.000	-.1075	-.0525	.0890	.1020	.2008	.1098
135.000	.0080	-.0518			.2959	.2187
180.000	-.1193	-.0309	.2888	.0753	.2241	.1118
225.000	-.2628	-.3225			.1112	.0000
270.000	-.2837	-.2510	-.0031	-.1851	-.1382	-.1421
315.000	-.2540	-.2857			-.1440	-.1203

ALPHAL(5) =   2.067   BETAL (3) =   2.145

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3066	.3836	.3020	-.6378	-.4145	-.1425	-.0354	-.0166	-.0406	.0241	.2875	.5233	-.2328	-.3328	-.4348
45.000		.3312	.2592	-.6501	-.4553	-.1708	.0036	-.0077	-.0745	.0612	.2919		-.4848	.5008	
90.000		.3041	.2492	-.6488	-.4732	-.1013	.0251	-.0245	-.1124	.0983	.2722				
135.000		.3000	.2417	-.6315	-.4759	-.0142	.0217	-.0621	-.1070	.1391	.3014	.5731	-.2569	-.4389	-.4699
180.000	1.3066	.3082	.2550	-.6332	-.4722	-.0139	-.0105	-.0997	-.1124	.1592	.2878				
225.000		.3463	.2945	-.6507	-.4141	-.1715	-.0057	-.0830	-.0740	.1745	.2888				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(5) =   2.067   BETAL (3) =   2.145

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4100	.5880	-.4580	-.4179	-.3318	-.0618	-.0501	-.0512	.1146	.3147	.5834	.0921	.1978	-.4495
315.000		.4275	.3997	-.6166	-.4155	-.2075	-.0823	-.0207	-.0202	.0642	.2767				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0991	-.2300	.1003	-.0087	.2271	.1871
45.000	-.0283	-.1600			.1895	.1214
90.000	-.1197	-.0520	.1031	.0571	.1649	.0676
135.000	-.0486	-.0699			.2149	.1337
180.000	-.1322	-.0713	.2100	-.0100	.1258	.0091
225.000	-.2541	-.3399			.0844	.0000
270.000	-.2751	-.2543	.0085	-.1567	-.1029	-.1216
315.000	-.2503	-.3010			-.0184	.0169

ALPHAL(5) =   2.051   BETAL (4) =   6.256

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2844	.3347	.2869	-.6492	-.3918	-.2040	-.0836	-.0525	-.0254	.0283	.2884	.6570	-.3145	-.3956	-.4873
45.000		.2502	.2072	-.6695	-.4934	-.1826	-.0395	-.0443	-.0682	.0617	.2976				
90.000		.2299	.2007	-.6629	-.5100	-.0648	-.0189	-.0562	-.1162	.0944	.2574		-.5261	-.5361	
135.000		.2368	.2024	-.6464	-.4998	-.0560	-.0463	-.1100	-.0914	.1360	.2632				
180.000	1.2844	.2519	.2450	-.6433	-.4599	-.1017	-.1090	-.1539	-.0747	.1483	.2052	.5175	-.2306	-.4172	-.4698
225.000		.3031	.3082	-.6545	-.3847	-.1593	-.0973	-.1230	-.0457	.1684	.2458				
270.000		.3753	.6182	-.4253	-.4355	-.3282	-.1069	-.0823	-.0597	.1214	.3205	.5457	.0536	.2306	-.4914
315.000		.4003	.4223	-.6217	-.3847	-.2039	-.1213	-.0425	-.0065	.0593	.2783				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0818	-.2009	.2506	.0873	.3794	.2928
45.000	-.0584	-.1385			.1976	.0979
90.000	-.1100	-.0637	.1636	.0160	.1356	.0270
135.000	-.0897	-.0592			.0691	-.0243
180.000	-.0670	-.1382	.1928	-.1049	.0191	-.0789
225.000	-.2876	-.4018			.0177	.0000
270.000	-.3154	-.2540	.1164	-.1086	-.0768	-.1648
315.000	-.2662	-.3093			.1496	.1217

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(6) =   4.217   BETAL (1) =   -6.009

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3213	.5060	.3487	-.6355	-.3885	-.1226	.0335	.0225	-.0003	.0760	.3033	.4436	-.2481	-.2705	-.3740
45.000		.4870	.3476	-.6341	-.3766	-.1600	.0709	.0522	-.0024	.0788	.3666			-.4231	-.4174
90.000		.4103	.3053	-.6482	-.4217	-.2862	.0719	.0415	-.0412	.1307	.3745				
135.000		.3280	.2133	-.6554	-.5014	-.0354	.0654	.0271	-.0433	.2059	.3875				
180.000	1.3213	.2950	.1596	-.6659	-.5441	-.0412	.0465	.0062	-.0436	.2415	.4152	.6034	-.2216	-.3197	-.3558
225.000		.3135	.1379	-.7110	-.3177	-.2444	.0122	.0292	-.0152	.2510	.4466				
270.000		.4230	.4909	-.4868	-.4148	-.2343	-.0324	.0017	.0019	.1552	.2010	.6636	.2195	.1576	-.3503
315.000		.4977	.4162	-.6150	-.3707	-.1308	-.0193	.0024	.0101	.1039	.2776				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0898	-.2796	.0044	-.0932	.1765	.1354
45.000	.0079	-.2707			.4187	.3308
90.000	-.0406	-.0717	.1940	.0868	.2412	.1543
135.000	.0450	-.0605			.1962	.1012
180.000	-.0442	-.0262	.2871	.0428	.1897	.0783
225.000	-.2270	-.3791			.2374	.0000
270.000	-.2809	-.2524	.0250	-.1788	-.1190	-.1375
315.000	-.2470	-.2730			-.1290	-.1235

ALPHAL(6) =   4.217   BETAL (2) =   -3.968

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3174	.4889	.3502	-.6308	-.3779	-.1138	.0223	.0171	-.0020	.0396	.3118	.4751	-.2154	-.2611	-.3880
45.000		.4470	.3269	-.6346	-.3938	-.1672	.0698	.0390	-.0106	.0290	.3609			-.4294	-.4402
90.000		.3674	.2860	-.6469	-.4368	-.2886	.0876	.0247	-.0650	.0924	.3540				
135.000		.3028	.2153	-.6489	-.5010	-.0434	.0821	.0165	-.0589	.1779	.3677				
180.000	1.3174	.2743	.1765	-.6482	-.5423	-.0630	.0510	-.0003	-.0565	.2208	.3973	.6176	-.2628	-.3650	-.3801
225.000		.2967	.1542	-.7023	-.3224	-.2751	.0086	.0195	-.0354	.2321	.4109				
270.000		.4110	.5084	-.5044	-.4347	-.2663	-.0561	-.0092	-.0122	.1534	.2917	.5915	.1497	.1249	-.4100
315.000		.4916	.4285	-.6106	-.3688	-.1337	-.0277	-.0058	.0034	.0808	.2923				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0834	-.2447	.0512	-.0529	.1982	.1522
45.000	-.0020	-.2074			.3581	.2790
90.000	-.0611	-.0319	.1465	.0814	.1737	.0819
135.000	.0412	-.0525			.2145	.1213
180.000	-.0549	-.0157	.3215	.0488	.2111	.0991

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(6) = 4.217   BETAL (2) = -3.968

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2044	-.3662			.2125	.0000
270.000	-.2619	-.2505	.0456	-.1594	-.1021	-.1274
315.000	-.2328	-.2728			-.0795	-.0864

ALPHAL(6) = 4.205   BETAL (3) = .112

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3041	.4549	.3443	-.6297	-.3745	-.0361	-.0031	.0007	-.0209	-.0127	.3127	.5524	-.2291	-.3081	-.4280
45.000		.3673	.2859	-.6472	-.4249	-.1712	.0226	.0079	-.0545	-.0178	.3356		-.4687	-.4874	
90.000		.2938	.2453	-.6561	-.4689	-.2240	.0397	-.0034	-.1092	.0722	.3127				
135.000		.2635	.2086	-.6465	-.5010	-.0207	.0459	-.0209	-.0881	.1449	.3243				
180.000	1.3041	.2539	.1955	-.6519	-.5278	-.0650	.0264	-.0479	-.0840	.1763	.3376	.5648	-.2982	-.4008	-.4170
225.000		.2718	.1801	-.6949	-.3292	-.3109	.0061	-.0339	-.0540	.1879	.3291				
270.000		.3944	.5308	-.4875	-.3874	-.3255	-.0678	-.0442	-.0410	.1237	.3175	.5480	.0697	.1397	-.4111
315.000		.4803	.4491	-.6059	-.3553	-.1555	-.0322	-.0226	-.0120	.0405	.2949				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0734	-.2216	.1397	-.0007	.2602	.2083
45.000	-.0198	-.1445			.2425	.1734
90.000	-.0961	-.0261	.1705	.0661	.1378	.0334
135.000	.0277	-.0684			.2818	.1892
180.000	-.0948	-.0146	.2962	.0373	.1463	.0405
225.000	-.2145	-.3494			.1525	.0000
270.000	-.2558	-.2439	.0305	-.1428	-.0819	-.1062
315.000	-.2314	-.2767			-.0039	.0119

ALPHAL(6) = 4.164   BETAL (4) = 4.225

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2849	.4166	.3391	-.6327	-.3790	-.1570	-.0724	-.0235	-.0376	.0440	.2958	.6276	-.2739	-.3515	-.4756
45.000		.2955	.2345	-.6591	-.4587	-.1715	-.0423	-.0243	-.0974	.0423	.3009		-.5073	-.5254	
90.000		.2386	.2027	-.6621	-.5060	-.1371	.0015	-.0267	-.1210	.1111	.2658				
135.000		.2307	.1920	-.6466	-.5124	-.0402	.0134	-.0540	-.0983	.1496	.2696	.4869	-.2561	-.4292	-.4217
180.000	1.2849	.2218	.1999	-.6486	-.5178	-.1222	-.0201	-.0916	-.0687	.1690	.2359				
225.000		.2444	.2095	-.6841	-.3106	-.3248	-.0259	-.0759	-.0299	.1882	.2444				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(6) = 4.164   BETAL (4) = 4.225

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
270.000		.3583	.5626	-.4591	-.3690	-.3299	-.0697	-.0653	-.0275	.1351	.3002	.4961	.0123	.1497	-.4574
315.000		.4618	.4734	-.5945	-.3019	-.2003	-.0700	-.0256	-.0091	.0711	.2779				

X/LS PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0673	-.1910	.2472	.0798	.3626	.2958
45.000	-.0625	-.1245			.2002	.1098
90.000	-.1057	-.0282	.2065	.0302	.1081	-.0097
135.000	-.0316	-.0613			.1393	.0492
180.000	-.0414	-.0978	.2085	-.0619	.0749	-.0360
225.000	-.2350	-.3767			.0567	.0000
270.000	-.2901	-.2279	.1384	-.0988	-.0361	-.1362
315.000	-.2519	-.2496			.1324	.1187

ALPHAL(6) = 4.148   BETAL (5) = 6.292

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.2717	.3978	.3313	-.6337	-.3566	-.1983	-.1028	-.0426	-.0464	.0037	.2798	.6559	-.3197	-.4002	-.4937
45.000		.2494	.2018	-.6700	-.4741	-.2084	-.0662	-.0488	-.1175	.0211	.3074		-.5248	-.5384	
90.000		.2045	.1816	-.6639	-.5207	-.0923	-.0187	-.0450	-.1083	.0979	.2594				
135.000		.2039	.1823	-.6456	-.5149	-.0508	-.0160	-.0786	-.0745	.1537	.2574	.4773	-.2681	-.4331	-.4266
180.000	1.2717	.1936	.1997	-.6476	-.5068	-.1547	-.0652	-.1192	-.0507	.1687	.2186				
225.000		.2220	.2128	-.6814	-.2898	-.3026	-.0594	-.1049	-.0221	.1795	.2387	.4584	.0196	.1567	-.4833
270.000		.3409	.5735	-.4346	-.3597	-.3090	-.0734	-.0816	-.0347	.1387	.3002				
315.000		.4574	.4831	-.5885	-.2682	-.2061	-.0874	-.0314	-.0007	.0636	.2640				

X/LS PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0665	-.1909	.2928	.1138	.4201	.3097
45.000	-.0672	-.1194			.1715	.0900
90.000	-.1088	-.0374	.2291	.0102	.0855	-.0341
135.000	-.0374	-.0876			.1061	.0050
180.000	-.0201	-.1506	.2030	-.1012	.0307	-.0766
225.000	-.2394	-.3975			.0060	.0000
270.000	-.3014	-.2214	.1436	-.0769	-.0396	-.1613
315.000	-.2529	-.2563			.1743	.1424

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(7) =   6.385   BETAL (1) =   -3.909

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3023	.5492	.3938	-.6199	-.3161	-.0555	-.0065	.0489	.0337	.0628	.3488	.5483	-.2269	-.3034	-.3948
45.000		.4675	.3369	-.6277	-.3613	-.1446	.0079	.0538	.0001	.0278	.3805			-.4424	-.4443
90.000		.3348	.2542	-.6576	-.4440	-.3473	-.0263	-.0255	-.1265	.0669	.3645				
135.000		.2494	.1629	-.6597	-.5348	-.0828	.0157	.0124	-.0522	.1795	.3420				
180.000	1.3023	.2251	.1190	-.6641	-.4136	-.1375	.0041	.0142	-.0222	.2070	.3584	.5779	-.3364	-.3780	-.3546
225.000		.2340	.0555	-.7323	-.3439	-.2662	-.0229	.0343	.0128	.2328	.3662				
270.000		.3736	.4432	-.5213	-.3493	-.2318	-.0184	.0241	.0281	.1695	.2665	.5253	.0957	.0777	-.4422
315.000		.5227	.4738	-.5827	-.3078	-.0721	-.0113	.0443	.0431	.1021	.2954				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0538	-.2401	.1394	.0014	.3004	.2397
45.000	.0389	-.2063			.3761	.3027
90.000	-.0401	-.0722	.2305	.0254	.2212	.1266
135.000	.0243	-.0769			.1085	.0011
180.000	-.0197	-.0806	.2983	-.0280	.2106	.0973
225.000	-.2035	-.3953			.2305	.0000
270.000	-.2469	-.2327	.0675	-.1465	-.0731	-.1026
315.000	-.2228	-.2598			-.0454	-.0378

ALPHAL(7) =   6.375   BETAL (2) =   -1.882

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2910	.5348	.3874	-.6251	-.3152	-.0541	-.0056	.0300	.0126	.0187	.3503	.5860	-.1970	-.3042	-.4160
45.000		.4224	.3063	-.6440	-.3890	-.1479	.0037	.0194	-.0351	-.0188	.3663			-.4581	-.4710
90.000		.2877	.2203	-.6708	-.4696	-.3240	-.0087	-.0365	-.1506	.0535	.3384				
135.000		.2179	.1540	-.6681	-.5434	-.0676	.0204	-.0080	-.0809	.1439	.3155				
180.000	1.2910	.2004	.1231	-.6721	-.3768	-.1282	.0091	-.0087	-.0512	.1852	.3329	.5726	-.3568	-.4060	-.3775
225.000		.2080	.0568	-.7409	-.3453	-.2857	-.0169	.0071	-.0181	.2046	.3281				
270.000		.3558	.4448	-.5299	-.3456	-.2518	-.0183	.0091	-.0058	.1507	.2841	.4575	.0408	.0581	-.4535
315.000		.5187	.4833	-.5895	-.2949	-.0944	-.0296	.0304	.0225	.0651	.3026				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0536	-.2260	.1656	.0179	.3332	.2594
45.000	.0041	-.1698			.3259	.2539
90.000	-.0588	-.0448	.2331	.0189	.1788	.0677
135.000	.0270	-.0705			.1185	.0259
180.000	-.0258	-.0675	.3366	-.0085	.2231	.1114

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS16)

ALPHAL(7) =   6.375   BETAL (2) =   -1.882

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2094	-.3850			.2104	.0000
270.000	-.2436	-.2257	.0748	-.1370	-.0657	-.0951
315.000	-.2199	-.2481			-.0063	.0099

ALPHAL(7) =   6.355   BETAL (3) =   .174

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2867	.5113	.3861	-.6173	-.3137	-.0729	-.0377	.0194	.0071	-.0062	.3591	.6186	-.1264	-.2854	-.4436
45.000		.3775	.2807	-.6468	-.4029	-.1229	-.0281	-.0001	-.0548	-.0372	.3584		-.4647	-.4797	
90.000		.2433	.2056	-.6674	-.4844	-.2917	-.0189	-.0299	-.1448	.0667	.3287				
135.000		.1932	.1592	-.6596	-.5385	-.0604	.0256	-.0141	-.0744	.1291	.2940				
180.000	1.2867	.1747	.1342	-.6616	-.4347	-.1290	.0194	-.0210	-.0434	.1836	.2950	.4964	-.3026	-.3951	-.3786
225.000		.1826	.0676	-.7330	-.3492	-.2944	-.0062	-.0090	-.0147	.1955	.2793				
270.000		.3373	.4605	-.5128	-.3725	-.2687	-.0288	-.0021	-.0165	.1485	.3226	.4455	-.0185	.1146	-.4474
315.000		.5065	.4959	-.5805	-.2694	-.1116	-.0411	.0252	.0241	.0531	.3370				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0507	-.2210	.1766	.0599	.3331	.2704
45.000	-.0291	-.1476			.2789	.2203
90.000	-.0786	-.0371	.2304	.0133	.1395	.0234
135.000	.0254	-.0831			.1724	.0886
180.000	-.0402	-.0550	.3303	-.0048	.1679	.0651
225.000	-.2132	-.3688			.1611	.0000
270.000	-.2416	-.2278	.0541	-.1311	-.0578	-.0855
315.000	-.2257	-.2585			.0422	.0794

ALPHAL(7) =   6.316   BETAL (4) =   2.224

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2789	.4921	.3786	-.6219	-.3094	-.1160	-.0849	-.0019	-.0125	-.0165	.3459	.6816	-.1731	-.3055	-.4795
45.000		.3321	.2513	-.6645	-.4293	-.1604	-.0736	-.0235	-.0873	-.0172	.3367		-.4658	-.4823	
90.000		.2228	.1856	-.6773	-.5082	-.2735	-.0335	-.0276	-.1442	.0968	.3012				
135.000		.1901	.1640	-.6595	-.5387	-.0568	.0187	-.0293	-.0854	.1190	.2541				
180.000	1.2789	.1743	.1450	-.6646	-.5061	-.1380	.0173	-.0482	-.0445	.1784	.2497	.4092	-.1769	-.3258	-.3681
225.000		.1677	.0862	-.7324	-.3592	-.3199	-.0095	-.0383	-.0192	.1883	.2586				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS16)

ALPHAL(7) =   6.316   BETAL (4) =   2.224

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3139	.4738	-.5011	-.4283	-.2688	-.0393	-.0276	-.0353	.1422	.3500	.4876	-.0709	.3442	-.4259
315.000		.5007	.5044	-.5806	-.2305	-.1480	-.0636	.0118	.0197	.0726	.3517				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0328	-.2322	.2557	.0536	.4032	.3318
45.000	-.0541	-.1380			.2467	.1596
90.000	-.0916	-.0534	.2382	-.0003	.1229	.0001
135.000	.0096	-.1069			.2265	.1374
180.000	-.0686	-.0646	.2461	-.0335	.0632	-.0361
225.000	-.2169	-.3419			.1260	.0000
270.000	-.2535	-.2315	.0450	-.1179	-.0675	-.0876
315.000	-.2366	-.2864			.1061	.1292

ALPHAL(7) =   6.287   BETAL (5) =   4.274

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6385	.7280	.7290	.7360	.7370
PHI															
.000	1.2660	.4720	.3750	-.6242	-.2789	-.1549	-.1271	-.0241	-.0257	.0284	.3087	.7013	-.2729	-.3320	-.4907
45.000		.2893	.2193	-.6702	-.4448	-.2141	-.1062	-.0494	-.1171	.0178	.3176		-.4770	-.4877	
90.000		.1813	.1606	-.6774	-.5218	-.2499	-.0405	-.0360	-.1325	.1152	.2814				
135.000		.1714	.1510	-.6536	-.5333	-.0546	.0159	-.0405	-.0878	.1329	.2361				
180.000	1.2660	.1532	.1438	-.6593	-.5289	-.1489	.0077	-.0675	-.0439	.1779	.2238	.3920	-.1749	-.3316	-.3629
225.000		.1378	.0951	-.7242	-.3686	-.3361	-.0142	-.0620	-.0170	.1887	.2456	.5044	-.0547	.4195	-.4354
270.000		.2941	.4865	-.4749	-.4646	-.2743	-.0491	-.0473	-.0374	.1440	.3517				
315.000		.5022	.5201	-.5708	-.1942	-.1530	-.0689	.0009	.0188	.0769	.3347				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0557	-.2099	.2859	.1157	.4603	.3579
45.000	-.0698	-.1006			.1897	.1273
90.000	-.1004	-.0492	.2596	-.0162	.1198	-.0125
135.000	-.0164	-.0891			.1366	.0430
180.000	-.0414	-.1074	.1828	-.0690	.0458	-.0685
225.000	-.2123	-.3720			.0776	.0000
270.000	-.2667	-.2207	.1249	-.0683	-.0300	-.1261
315.000	-.2370	-.2789			.1886	.1892

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS17)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT		MACH = .900	RN/FT = 2.250
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT		ELV-IB = 10.000	ELV-OB = 4.000
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT		RUDDER = .000	SPDBRK = .000
SCALE = .0300 SCALE				

ALPHAL(1) = -6.526   BETAL (1) = -3.899

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1791	.0927	-.1252	-1.1548	-.5404	-.2712	-.1756	-.0927	-.0597	-.0607	.0709	.2255	-.4851	-.2759	-.5109
45.000		.1141	-.0765	-1.1599	-.8990	-.2061	-.2409	-.1653	-.1181	-.1006	.0496				
90.000		.1960	.0157	-1.1314	-.6588	-.3347	-.3649	-.2904	-.2424	-.2358	-.0246		-.6689	-.6744	
135.000		.3613	.1337	-1.0700	-.1139	-.1364	-.1950	-.1053	-.0328	-.0305	.1156				
180.000	1.1791	.4833	.2263	-1.0369	.0490	-.0505	-.1472	-.0417	.0427	.0648	.2107	.5857	-.1781	-.5731	-.6591
225.000		.4583	.3138	-1.0062	.0165	-.0297	-.1612	-.0234	.0575	.0744	.3136				
270.000		.2342	.2118	-.9020	-.2242	-.4560	-.3618	-.0943	-.0258	-.0766	.1288	.8050	.1215	.1993	-.5469
315.000		.0861	-.2207	-1.2206	-.5758	-.4722	-.1588	-.0546	-.0123	-.0195	.1970				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1953	-.2767	-.0788	-.2581	-.1392	-.2265
45.000	-.1980	-.1534			-.0733	-.1139
90.000	-.2191	-.1838	.2525	-.1548	.1110	-.0153
135.000	-.1665	-.1541			.3418	.1500
180.000	-.0578	-.2258	.5242	-.0710	.2997	.0941
225.000	-.3144	-.2875			.2190	.0000
270.000	-.2693	-.2401	.1243	-.2655	-.1918	-.1908
315.000	-.3063	-.2643			-.1942	-.2215

ALPHAL(1) = -6.478   BETAL (2) = -1.861

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1762	.0814	-.1236	-1.1456	-.5351	-.2559	-.1643	-.0730	-.0478	-.0482	.0585	.2713	-.5020	-.3883	-.5724
45.000		.1043	-.0807	-1.1515	-.9162	-.1811	-.2171	-.1281	-.0982	-.0977	.0176				
90.000		.1647	-.0079	-1.1320	-.7989	-.3357	-.3468	-.2528	-.2035	-.1939	.0021		-.6764	-.6803	
135.000		.3280	.1071	-1.0758	-.1846	-.1804	-.2345	-.1149	-.0516	-.0582	.1030				
180.000	1.1762	.4807	.2275	-1.0351	.0156	-.0876	-.1872	-.0493	.0276	.0427	.1853	.5758	-.2037	-.6001	-.6616
225.000		.4815	.3292	-.9925	.0129	-.0408	-.1829	-.0318	.0493	.0643	.2847				
270.000		.2470	.2212	-.8967	-.2137	-.4469	-.3514	-.0885	-.0219	-.0497	.1618	.7627	.0895	.1561	-.5775
315.000		.0856	-.2183	-1.2165	-.5481	-.4924	-.1689	-.0547	-.0087	-.0126	.1915				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(1) = -6.478   BETAL (2) = -1.861

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1543	-.2733	.0309	-.2425	-.0976	-.2045
45.000	-.1998	-.1483			-.0899	-.1400
90.000	-.2123	-.1380	.1105	-.1792	.0678	-.0464
135.000	-.1955	-.1917			.3265	.1359
180.000	-.0256	-.2450	.5245	-.0969	.2907	.0992
225.000	-.3079	-.2522			.1820	.0000
270.000	-.2553	-.2438	.1257	-.2612	-.1920	-.2107
315.000	-.3029	-.2664			-.1714	-.1872

ALPHAL(1) = -6.434   BETAL (3) = .207

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1704	.0735	-.1287	-1.1557	-.5589	-.2644	-.1468	-.0678	-.0388	-.0453	.0661	.3088	-.5352	-.4506	-.6500
45.000		.0960	-.0874	-1.1581	-.9342	-.1609	-.1825	-.0930	-.0992	-.1375	-.0449		-.6869	-.6891	
90.000		.1330	-.0342	-1.1499	-.8244	-.3451	-.3200	-.2203	-.1692	-.1618	.0333				
135.000		.2861	.0652	-1.0991	-.2585	-.2423	-.2723	-.1437	-.0797	-.0928	.0780				
180.000	1.1704	.4708	.2186	-1.0455	-.0374	-.1322	-.2212	-.0702	.0068	.0106	.1397	.5580	-.2216	-.6352	-.6802
225.000		.4992	.3459	-.9855	-.0030	-.0600	-.1968	-.0373	.0427	.0526	.2291				
270.000		.2562	.2232	-.9059	-.2006	-.4456	-.3083	-.0802	-.0125	-.0361	.1794	.7304	.0488	.0753	-.5706
315.000		.0754	-.2241	-1.2269	-.5686	-.4904	-.1705	-.0566	-.0141	-.0199	.1753				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0916	-.3402	.2046	-.3287	.0723	-.0970
45.000	-.2217	-.1466			-.0824	-.1568
90.000	-.2426	-.1027	.0773	-.1783	.0145	-.0827
135.000	-.2291	-.2203			.3005	.1201
180.000	-.0076	-.2233	.4475	-.0994	.2067	.0604
225.000	-.2577	-.2557			.0099	.0000
270.000	-.2772	-.2630	-.0700	-.2440	-.1974	-.1963
315.000	-.2982	-.2820			-.1703	-.1540

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS17)

ALPHAL(1) =   -6.409   BETAL (4) =   2.271

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1625	.0773	-.1253	-1.1549	-.5547	-.2574	-.1312	-.0431	-.0202	-.0312	.0688	.3279	-.5515	-.5018	-.6642
45.000		.0916	-.0893	-1.1549	-.7841	-.1311	-.1517	-.0628	-.0674	-.1386	-.0320				
90.000		.1106	-.0610	-1.1507	-.8486	-.3345	-.2797	-.1811	-.1266	-.1267	.0704		-.6665	-.6681	
135.000		.2504	.0288	-1.1070	-.3215	-.2795	-.2909	-.1575	-.0921	-.1113	.0646				
180.000	1.1625	.4673	.2159	-1.0402	-.0822	-.1712	-.2279	-.0825	-.0074	-.0001	.0923	.5521	-.1994	-.6242	-.6160
225.000		.5258	.3678	-.9608	-.0143	-.0685	-.1834	-.0307	.0431	.0531	.1724				
270.000		.2725	.2303	-.8979	-.1868	-.4250	-.2743	-.0574	.0061	-.0181	.1797	.7252	.0535	.1720	-.5010
315.000		.0780	-.2156	-1.2196	-.5521	-.4750	-.1548	-.0419	-.0054	-.0131	.1561				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0273	-.3460	.2638	-.3135	.3060	.0651
45.000	-.2080	-.1611			-.0439	-.1374
90.000	-.2515	-.0863	.1004	-.1242	-.0307	-.1114
135.000	-.2578	-.2425			.2533	.0878
180.000	-.0439	-.2448	.4108	-.1424	.1478	.0045
225.000	-.2998	-.2371			-.0869	.0000
270.000	-.2512	-.2440	-.1277	-.2370	-.1816	-.1804
315.000	-.2956	-.2742			-.1199	-.0947

ALPHAL(1) =   -6.387   BETAL (5) =   4.321

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1544	.0691	-.1308	-1.1592	-.5941	-.2917	-.1329	-.0393	-.0172	-.0255	.0477	.3397	-.5443	-.4845	-.6417
45.000		.0842	-.1068	-1.1600	-.7789	-.1299	-.1329	-.0563	-.0432	-.1020	.0011				
90.000		.0800	-.0929	-1.1654	-.8742	-.3287	-.2543	-.1535	-.0962	-.0908	.0823		-.6359	-.6429	
135.000		.2063	-.0172	-1.1193	-.4004	-.3352	-.3034	-.1899	-.1143	-.1316	.0335				
180.000	1.1544	.4531	.1965	-1.0408	-.1404	-.2245	-.2775	-.1241	-.0285	-.0159	.0154	.5648	-.4321	-.5124	-.6219
225.000		.5445	.3804	-.9188	-.0303	-.0837	-.1886	-.0490	.0330	.0404	.1170				
270.000		.2857	.2326	-.8883	-.1726	-.4134	-.2543	-.0594	.0064	-.0143	.1628	.7442	.0718	.3234	-.4965
315.000		.0722	-.2170	-1.2180	-.5679	-.4770	-.1692	-.0463	-.0059	-.0193	.1417				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0311	-.3333	.2711	-.1744	.3737	.1356
45.000	-.2120	-.1729			.0071	-.1047
90.000	-.2516	-.0843	.1321	-.1051	-.0316	-.1129
135.000	-.2439	-.2481			.1608	.0055
180.000	-.0285	-.3103	.2637	-.1841	.0125	-.0885

ARC11-019 IA8I LVAP(ELHL SEALED) SRM BOOSTER   (RETS17)

ALPHAL(1) = -6.387   BETAL (5) = 4.321

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2935	-.2573			-.1028	.0000
270.000	-.2618	-.2473	-.1667	-.2282	-.1868	-.2082
315.000	-.2993	-.2855			-.0691	-.0584

ALPHAL(2) = -4.392   BETAL (1) = -6.002

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2089	.1521	-.0704	-1.1461	-.5143	-.2339	-.1448	-.0795	-.0412	-.0174	.1150	.2185	-.4506	-.1323	-.4537
45.000		.1927	-.0108	-1.1438	-.8483	-.1523	-.1865	-.1306	-.0977	-.0839	.0800		-.6607	-.6691	
90.000		.2821	.0865	-1.1097	-.7126	-.2187	-.2611	-.2087	-.1781	-.1607	.0277				
135.000		.3803	.1562	-1.0660	-.1190	-.0431	-.1000	-.0513	.0222	.0483	.1765				
180.000	1.2089	.4264	.1783	-1.0634	.0606	-.0038	-.0923	-.0339	.0568	.1129	.2538	.5771	-.1815	-.5725	-.6458
225.000		.4144	.2484	-1.0481	.0222	-.0137	-.1154	-.0281	.0629	.1161	.3423				
270.000		.2925	.2902	-.8727	-.4671	-.4053	-.2792	-.0710	-.0051	-.0404	.1135	.8159	.1755	.2604	-.5810
315.000		.1760	-.1096	-1.1815	-.5778	-.4411	-.1100	-.0409	.0014	.0038	.2046				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1227	-.2580	-.1534	-.3115	-.1619	-.2332
45.000	-.1692	-.1831			.0283	-.0313
90.000	-.2046	-.1541	.0248	-.0460	.1858	.0396
135.000	-.1060	-.0891			.3317	.1452
180.000	-.0487	-.1617	.4909	-.0363	.2721	.0728
225.000	-.3180	-.3691			.2625	.0000
270.000	-.2714	-.2540	.0727	-.2601	-.1918	-.1931
315.000	-.3004	-.2682			-.1969	-.2181

ALPHAL(2) = -4.351   BETAL (2) = -3.963

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2046	.1473	-.0742	-1.1434	-.5262	-.2292	-.1293	-.0694	-.0323	-.0206	.1041	.2012	-.4484	-.1560	-.4655
45.000		.1795	-.0219	-1.1477	-.8683	-.1383	-.1668	-.1038	-.0709	-.0617	.0768		-.6588	-.6689	
90.000		.2454	.0553	-1.1217	-.8011	-.2227	-.2561	-.1896	-.1521	-.1483	.0372				
135.000		.3502	.1263	-1.0791	-.2296	-.0776	-.1394	-.0713	.0018	.0210	.1584				
180.000	1.2046	.4216	.1768	-1.0672	.0384	-.0349	-.1312	-.0447	.0441	.0879	.2326	.5708	-.1855	-.5734	-.6433
225.000		.4266	.2629	-1.0455	.0224	-.0303	-.1432	-.0346	.0545	.1018	.3219				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(2) = -4.351   BETAL (2) =   -3.963

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.2997	.2970	-.8695	-.4552	-.4052	-.2692	-.0667	-.0002	-.0233	.1541	.7900	.1251	.2746	-.5649
315.000		.1721	-.1158	-1.1890	-.5583	-.4679	-.1181	-.0423	-.0013	.0033	.1996				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1498	-.2445	-.1210	-.2681	-.1411	-.2143
45.000	-.1781	-.1500			-.0015	-.0556
90.000	-.2042	-.1343	-.0119	-.0699	.1402	.0125
135.000	-.1508	-.1068			.3263	.1441
180.000	-.0403	-.2055	.4997	-.0614	.2895	.0824
225.000	-.3079	-.2796			.1978	.0000
270.000	-.2697	-.2338	.1142	-.2236	-.1768	-.1821
315.000	-.2923	-.2628			-.1853	-.2098

ALPHAL(2) = -4.294   BETAL (3) =   .147

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1991	.1329	-.0720	-1.1422	-.5655	-.2229	-.1175	-.0428	-.0178	-.0161	.0936	.3006	-.4983	-.4044	-.5777
45.000		.1564	-.0434	-1.1380	-.9001	-.1001	-.1314	-.0628	-.0316	-.0502	.0694				
90.000		.1881	.0076	-1.1330	-.8275	-.2233	-.2308	-.1353	-.0956	-.0970	.0687		-.6475	-.6586	
135.000		.2879	.0730	-1.0891	-.5164	-.1514	-.2061	-.0960	-.0318	-.0322	.1254				
180.000	1.1991	.4146	.1769	-1.0586	-.0719	-.1073	-.1853	-.0632	.0158	.0376	.1676	.5561	-.2305	-.6106	-.6365
225.000		.4641	.2964	-1.0218	-.0024	-.0617	-.1742	-.0417	.0414	.0683	.2374				
270.000		.3242	.3188	-.8647	-.4145	-.4046	-.2516	-.0567	.0096	-.0030	.1803	.6941	.0451	.0553	-.5595
315.000		.1731	-.1079	-1.1811	-.5328	-.4873	-.1395	-.0405	-.0027	.0012	.1696				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0890	-.2803	.1131	-.2042	-.0272	-.1314
45.000	-.1861	-.1004			-.0245	-.0951
90.000	-.2132	-.0715	.0310	-.0904	.0458	-.0577
135.000	-.2042	-.1373			.2584	.1054
180.000	-.0053	-.2419	.4609	-.1066	.2276	.0624
225.000	-.2510	-.2456			-.0071	.0000
270.000	-.2621	-.2490	-.0796	-.2342	-.1997	-.1855
315.000	-.2788	-.2798			-.1661	-.1567

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(2) =   -4.254   BETAL (4) =   4.246

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.1839	.1265	-.0838	-1.1504	-.6331	-.2422	-.0942	-.0210	-.0044	-.0121	.0652	.3099	-.5398	-.4549	-.5888
45.000		.1285	-.0648	-1.1403	-.8482	-.0979	-.0899	-.0284	-.0064	-.0221	.0625				
90.000		.1339	-.0465	-1.1508	-.8972	-.2136	-.1786	-.0876	-.0392	-.0391	.1083		-.6243	-.6132	
135.000		.2173	-.0016	-1.1272	-.6312	-.2300	-.2467	-.1270	-.0580	-.0676	.0836				
180.000	1.1839	.3966	.1562	-1.0760	-.1511	-.1911	-.2277	-.1022	-.0144	.0129	.0575	.5716	-.4363	-.4947	-.5652
225.000		.5014	.3294	-1.0145	-.0521	-.0838	-.1735	-.0535	.0325	.0598	.1413				
270.000		.3559	.3298	-.8761	-.3865	-.3888	-.1998	-.0385	.0133	.0071	.1710	.7041	.0545	.1790	-.4796
315.000		.1774	-.0965	-1.1903	-.5247	-.4750	-.1255	-.0327	-.0044	-.0033	.1398				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0525	-.2893	.2009	-.1168	.2604	.0968
45.000	-.1737	-.1253			.0806	-.0607
90.000	-.2276	-.0658	.0892	-.0665	-.0090	-.1001
135.000	-.2195	-.1760			.1643	.0162
180.000	.0163	-.3137	.3242	-.1945	.0381	-.0762
225.000	-.2901	-.2464			-.0966	.0000
270.000	-.2569	-.2308	-.1241	-.2188	-.1735	-.1893
315.000	-.2893	-.2700			-.0870	-.0654

ALPHAL(2) =   -4.232   BETAL (5) =   6.309

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.1754	.1106	-.0912	-1.1523	-.6787	-.2655	-.0876	-.0253	-.0017	-.0178	.0514	.2974	-.5410	-.4798	-.5575
45.000		.1102	-.0799	-1.1411	-.6290	-.1109	-.0826	-.0242	-.0044	-.0151	.0661				
90.000		.1114	-.0698	-1.1554	-.9188	-.2178	-.1577	-.0791	-.0388	-.0209	.0976		-.6105	-.6254	
135.000		.1867	-.0326	-1.1402	-.5931	-.2655	-.2614	-.1428	-.0687	-.0687	.0472				
180.000	1.1754	.3869	.1480	-1.0786	-.2073	-.2304	-.2459	-.1289	-.0317	.0015	.0049	.4614	-.4747	-.4837	-.6017
225.000		.5188	.3434	-1.0056	-.0738	-.1005	-.1720	-.0640	.0215	.0441	.1011				
270.000		.3683	.3414	-.8760	-.3496	-.3755	-.1859	-.0373	.0107	.0099	.1577	.6305	.0077	.2294	-.4678
315.000		.1770	-.0892	-1.1884	-.5157	-.4665	-.1217	-.0238	-.0063	-.0086	.1364				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0765	-.2176	.1866	-.0171	.2485	.0886
45.000	-.1506	-.1168			.1927	.0457
90.000	-.1821	-.0462	.1364	-.0630	-.0046	-.0955
135.000	-.1676	-.1684			.0503	-.0646
180.000	-.1115	-.2527	.1824	-.1817	-.0027	-.0868

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(2) =   -4.232   BETAL (5) =   6.309

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2932	-.2950			-.0824	.0000
270.000	-.2661	-.2483	-.0982	-.2095	-.1857	-.2228
315.000	-.2928	-.2816			-.0108	.0057

ALPHAL(3) =   -2.224   BETAL (1) =   -6.045

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2254	.2136	-.0182	-1.1194	-.6003	-.1769	-.1124	-.0596	-.0169	.0067	.1444	.2314	-.4440	-.1882	-.5026
45.000		.2492	.0472	-1.1132	-.8298	-.0823	-.1267	-.0754	-.0404	-.0329	.1210				
90.000		.3107	.1178	-1.0889	-.7474	-.0971	-.1537	-.1008	-.0677	-.0583	.0977		-.6580	-.6630	
135.000		.3548	.1421	-1.0710	-.4559	-.0060	-.0769	-.0396	.0401	.0828	.2100				
180.000	1.2254	.3656	.1351	-1.0767	-.1396	-.0006	-.0931	-.0377	.0597	.1293	.2674	.5531	-.1925	-.5612	-.6133
225.000		.3765	.1961	-1.0729	-.1180	-.0451	-.1186	-.0365	.0628	.1391	.3456				
270.000		.3366	.3557	-.8263	-.5913	-.3847	-.2510	-.0631	.0074	-.0077	.1099	.7917	.1743	.2530	-.4139
315.000		.2445	-.0076	-1.1526	-.5096	-.4100	-.1155	-.0307	.0032	.0210	.2144				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0918	-.2264	-.1521	-.2925	-.1202	-.1983
45.000	-.1365	-.1703			.0980	.0118
90.000	-.1655	-.0784	.0657	.0137	.2061	.0568
135.000	-.0849	-.0192			.2815	.1278
180.000	-.0613	-.1224	.4388	-.0313	.2461	.0593
225.000	-.3107	-.3889			.2692	.0000
270.000	-.2781	-.2405	.1630	-.2398	-.1783	-.1912
315.000	-.2959	-.2701			-.2002	-.2168

ALPHAL(3) =   -2.176   BETAL (2) =   -1.967

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2181	.2098	-.0198	-1.1341	-.6330	-.1740	-.1044	-.0361	-.0063	.0081	.1119	.2759	-.4578	-.2705	-.4846
45.000		.2203	.0124	-1.1240	-.8470	-.0607	-.1044	-.0492	-.0160	-.0030	.1222				
90.000		.2517	.0573	-1.1155	-.8444	-.1069	-.1276	-.0617	-.0434	-.0391	.1050		-.6381	-.6529	
135.000		.3028	.0937	-1.0878	-.6612	-.0584	-.1276	-.0585	.0158	.0450	.1741				
180.000	1.2181	.3632	.1305	-1.0798	-.1798	-.0592	-.1303	-.0554	.0389	.0884	.2225	.5415	-.2321	-.5803	-.6032
225.000		.4027	.2122	-1.0675	-.1469	-.0889	-.1388	-.0430	.0496	.1042	.2824				

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(3) =   -2.176   BETAL (2) =   -1.967

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3593	.3705	-.8375	-.5704	-.4041	-.2056	-.0399	.0224	.0327	.1818	.6900	.0583	.1099	-.4807
315.000		.2528	-.0039	-1.1549	-.4876	-.4408	-.1226	-.0311	.0028	.0177	.1836				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1414	-.1860	-.0700	-.2058	-.0429	-.1226
45.000	-.1534	-.1097			.0816	-.0085
90.000	-.1674	-.0494	.0379	-.0077	.1203	-.0116
135.000	-.1437	-.0623			.2553	.0934
180.000	-.0394	-.1960	.4560	-.0673	.2754	.0795
225.000	-.2971	-.2571			.1772	.0000
270.000	-.2502	-.2196	.0955	-.1953	-.1470	-.1713
315.000	-.2876	-.2429			-.1574	-.1817

ALPHAL(3) =   -2.161   BETAL (3) =   2.159

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2107	.1867	-.0279	-1.1354	-.8141	-.2029	-.1038	-.0300	-.0061	-.0027	.0876	.3192	-.5176	-.4278	-.5351
45.000		.1790	-.0210	-1.1238	-.8966	-.0668	-.0860	-.0289	-.0034	-.0035	.0995				
90.000		.1921	.0080	-1.1350	-.8668	-.1167	-.1381	-.0617	-.0200	-.0119	.1130		-.6431	-.6389	
135.000		.2487	.0409	-1.1093	-.7946	-.1255	-.1744	-.0732	-.0123	-.0061	.1329				
180.000	1.2107	.3510	.1280	-1.0821	-.3791	-.1327	-.1837	-.0694	.0065	.0400	.1379	.5392	-.2628	-.5974	-.5537
225.000		.4331	.2468	-1.0550	-.1789	-.1175	-.1660	-.0482	.0343	.0764	.1760				
270.000		.3847	.3884	-.8450	-.5889	-.4204	-.1802	-.0347	.0139	.0307	.1764	.5799	-.0115	.1055	-.4274
315.000		.2557	.0046	-1.1497	-.4779	-.4579	-.1339	-.0281	.0012	.0107	.1570				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1075	-.2266	.0819	-.1221	.1367	.0235
45.000	-.1478	-.1358			.0919	-.0363
90.000	-.1985	-.0415	.0722	-.0309	.0251	-.0719
135.000	-.1915	-.0892			.1468	.0232
180.000	-.0041	-.2701	.4311	-.1507	.1893	.0355
225.000	-.2861	-.2415			-.0641	.0000
270.000	-.2529	-.2327	-.1178	-.2094	-.1642	-.1726
315.000	-.2922	-.2636			-.1236	-.0976

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS17)

ALPHAL(3) =   -2.135   BETAL (4) =   6.257

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1960	.1723	-.0399	-1.1401	-.7848	-.2367	-.0825	-.0214	-.0014	-.0012	.0853	.3632	-.5316	-.5166	-.5255
45.000		.1478	-.0535	-1.1401	-.8204	-.0632	-.0725	-.0238	-.0003	.0023	.1099		-.6240	-.6252	
90.000		.1517	-.0387	-1.1447	-.9078	-.1143	-.1127	-.0474	-.0142	-.0089	.1034				
135.000		.1928	-.0213	-1.1312	-.8055	-.1826	-.1981	-.0960	-.0216	-.0097	.0907				
180.000	1.1960	.3332	.1123	-1.0876	-.3480	-.2066	-.2190	-.1069	-.0162	.0246	.0334	.4501	-.4196	-.5104	-.5800
225.000		.4627	.2809	-1.0395	-.1288	-.1293	-.1661	-.0543	.0150	.0538	.1061				
270.000		.4123	.4110	-.8429	-.5525	-.4072	-.1432	-.0385	-.0016	.0284	.1530	.5108	-.0516	.1046	-.4849
315.000		.2685	.0213	-1.1441	-.4614	-.4603	-.1216	-.0188	.0023	.0045	.1544				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0945	-.1578	.1809	.0136	.2395	.1115
45.000	-.1211	-.0881			.1770	.0390
90.000	-.1540	-.0386	.1582	-.0604	.0120	-.0948
135.000	-.1578	-.1289			.0768	-.0491
180.000	-.0763	-.2363	.2052	-.1804	-.0011	-.0997
225.000	-.2931	-.3045			-.0570	.0000
270.000	-.2828	-.2352	-.0612	-.1877	-.1634	-.2179
315.000	-.3014	-.2706			.0371	.0434

ALPHAL(4) =   -.094   BETAL (1) =   -6.061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2240	.2808	.0383	-1.1174	-.8551	-.0857	-.0810	-.0475	-.0039	.0256	.1583	.2923	-.4617	-.1976	-.4590
45.000		.3013	.0876	-1.1043	-.7991	-.0286	-.0710	-.0359	-.0058	.0172	.1579		-.6390	-.6375	
90.000		.3221	.1285	-1.0911	-.7022	-.0153	-.0590	-.0348	.0069	.0417	.1513				
135.000		.3159	.1104	-1.0816	-.5993	.0129	-.0486	-.0336	.0498	.1143	.2235				
180.000	1.2240	.3043	.0799	-1.0903	-.3019	-.0027	-.0629	-.0348	.0675	.1516	.2542	.5052	-.1763	-.4981	-.5426
225.000		.3291	.1193	-1.1014	-.2335	-.0971	-.0602	-.0267	.0702	.1598	.3155	.6721	.0808	.2446	-.3165
270.000		.3531	.3727	-.8021	-.5941	-.3283	-.0919	-.0313	.0375	.0781	.1897				
315.000		.3047	.0733	-1.1235	-.5458	-.3119	-.0915	-.0274	.0118	.0359	.2063				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1453	-.2486	-.1134	-.2463	-.0149	-.1065
45.000	-.1027	-.1666			.1944	.0712
90.000	-.1310	-.0207	.0998	.0511	.2187	.0623
135.000	-.0656	.0033			.2269	.0627
180.000	-.0142	-.1003	.3929	-.0339	.2033	.0308

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(4) =   -.094   BETAL (1) =   -6.061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2737	-.3446			.1848	.0000
270.000	-.2882	-.2261	.1145	-.2208	-.1675	-.1813
315.000	-.3038	-.2352			-.2026	-.2017

ALPHAL(4) =   -.078   BETAL (2) =   -4.027

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2211	.2692	.0337	-1.1212	-.8742	-.1015	-.0870	-.0441	-.0001	.0212	.1434	.3131	-.4740	-.2489	-.4413
45.000		.2762	.0646	-1.1169	-.8127	-.0241	-.0692	-.0372	.0011	.0208	.1553		-.6337	-.6381	
90.000		.2893	.0964	-1.1080	-.7520	-.0210	-.0700	-.0422	.0038	.0319	.1410				
135.000		.2924	.0886	-1.0912	-.6997	-.0035	-.0673	-.0399	.0381	.0924	.1949	.4896	-.2400	-.5255	-.5531
180.000	1.2211	.2987	.0801	-1.0961	-.3086	-.0229	-.0808	-.0449	.0504	.1278	.2268				
225.000		.3328	.1289	-1.1038	-.2877	-.1164	-.0758	-.0383	.0504	.1364	.2764	.5879	.0305	.1725	-.3597
270.000		.3592	.3847	-.8021	-.5647	-.3575	-.0928	-.0352	.0227	.0815	.2133				
315.000		.3076	.0750	-1.1278	-.5479	-.3484	-.0913	-:0298	.0081	.0345	.1988				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1668	-.2286	-.0633	-.2039	.0184	-.0811
45.000	-.1241	-.1467			.1693	.0547
90.000	-.1287	-.0128	.0730	.0327	.1642	.0230
135.000	-.0882	-.0082			.1905	.0418
180.000	-.0120	-.1352	.4085	-.0587	.2281	.0437
225.000	-.2764	-.3331			.1809	.0000
270.000	-.2692	-.2192	.0955	-.2032	-.1531	-.1818
315.000	-.2971	-.2349			-.1767	-.1826

ALPHAL(4) =   -.076   BETAL (3) =   .064

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2184	.2565	.0253	-1.1244	-.8597	-.1326	-.0801	-.0406	-.0019	.0077	.1224	.3694	-.4717	-.3530	-.4889
45.000		.2320	.0233	-1.1221	-.8433	-.0157	-.0680	-.0347	.0024	.0139	.1370		-.6303	-.6453	
90.000		.2374	.0422	-1.1159	-.8165	-.0325	-.0843	-.0460	.0005	.0247	.1301				
135.000		.2537	.0543	-1.1028	-.8410	-.0409	-.1048	-.0634	.0247	.0725	.1601	.4749	-.3112	-.5588	-.5797
180.000	1.2184	.2995	.0825	-1.0970	-.5914	-.0806	-.1261	-.0572	.0278	.0924	.2028				
225.000		.3616	.1589	-1.0947	-.4311	-.1482	-.1029	-.0572	.0278	.0924	.2028				

DATE 21 OCT 75　　　　IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)　SRM BOOSTER　　　　(RETS17)

ALPHAL(4) =　　-.076　　BETAL (3) =　　.064

SECTION (1)SRM BOOSTER　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3876	.4092	-.8024	-.5938	-.3922	-.0835	-.0665	-.0027	.0593	.2259	.5090	-.0855	.0585	-.5141
315.000		.3185	.0814	-1.1299	-.5628	-.4131	-.0924	-.0266	.0135	.0269	.2042				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1383	-.2150	.0427	-.1024	.1194	.0037
45.000	-.1232	-.1314			.1583	.0289
90.000	-.1329	-.0004	.0957	.0160	.1052	-.0242
135.000	-.1363	-.0153			.1288	.0007
180.000	-.0416	-.1531	.3562	-.0791	.1761	.0319
225.000	-.2120	-.2776			.0355	.0000
270.000	-.2475	-.2550	-.0269	-.1956	-.1214	-.1461
315.000	-.2845	-.2669			-.1183	-.1006

ALPHAL(4) =　　-.061　　BETAL (4) =　　4.161

SECTION (1)SRM BOOSTER　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2084	.2416	.0191	-1.1188	-.8394	-.1578	-.0729	-.0370	-.0091	.0069	.1264	.4208	-.4934	-.4367	-.5054
45.000		.1949	-.0129	-1.1265	-.8740	-.0237	-.0644	-.0335	-.0030	.0138	.1341		-.6065	-.6211	
90.000		.1918	-.0048	-1.1168	-.8755	-.0381	-.0787	-.0447	-.0006	.0279	.1115				
135.000		.2119	.0102	-1.1046	-.8295	-.0799	-.1367	-.0675	.0076	.0287	.1184	.4377	-.3276	-.5336	-.5486
180.000	1.2084	.2840	.0800	-1.0879	-.7231	-.1415	-.1637	-.0837	.0023	.0498	.0942				
225.000		.3881	.1918	-1.0696	-.4466	-.1631	-.1123	-.0783	.0199	.0778	.1414	.4482	-.1382	.1592	-.4822
270.000		.4190	.4336	-.8079	-.6152	-.4173	-.0853	-.1000	-.0169	.0471	.2050				
315.000		.3384	.1039	-1.1095	-.5590	-.4509	-.0756	-.0184	.0176	.0249	.2102				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1092	-.1529	.1427	-.0232	.1935	.0784
45.000	-.1459	-.0626			.1700	.0342
90.000	-.1386	-.0231	.1508	-.0274	.0684	-.0501
135.000	-.1552	-.0527			.0769	-.0386
180.000	-.0725	-.2068	.2867	-.1564	.0746	-.0674
225.000	-.3078	-.2615			-.0167	.0000
270.000	-.2957	-.2175	-.0359	-.1687	-.1225	-.1678
315.000	-.3135	-.2452			.0014	.0070

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(4) = -.056   BETAL (5) = 6.209

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2025	.2290	.0075	-1.1326	-.8423	-.1727	-.0572	-.0340	-.0051	.0026	.1277	.4402	-.4952	-.4615	-.5102
45.000		.1721	-.0371	-1.1412	-.8945	-.0260	-.0583	-.0282	.0015	.0107	.1347		-.6156	-.6312	
90.000		.1663	-.0278	-1.1292	-.8892	-.0374	-.0719	-.0379	.0046	.0245	.1028				
135.000		.1868	-.0189	-1.1215	-.8430	-.0999	-.1460	-.0691	.0065	.0288	.1078				
180.000	1.2025	.2747	.0716	-1.0986	-.6962	-.1696	-.1804	-.1004	-.0004	.0484	.0594	.3825	-.3702	-.5106	-.5477
225.000		.3975	.2020	-1.0723	-.3087	-.1601	-.1167	-.0838	.0061	.0717	.1143				
270.000		.4289	.4403	-.8182	-.6059	-.3998	-.0931	-.1185	-.0254	.0467	.2007	.4402	-.1755	.2467	-.4986
315.000		.3413	.1103	-1.1169	-.5495	-.4307	-.0607	-.0086	.0169	.0202	.2119				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1054	-.1297	.2287	.0360	.2566	.1239
45.000	-.1522	-.0485			.1675	.0274
90.000	-.1429	-.0276	.1905	-.0586	.0965	-.0374
135.000	-.1381	-.0619			.0660	-.0530
180.000	-.0752	-.1860	.2168	-.1563	.0031	-.0961
225.000	-.2950	-.2814			-.0235	.0000
270.000	-.3102	-.2144	-.0300	-.1709	-.1477	-.2071
315.000	-.3155	-.2460			.1030	.0918

ALPHAL(5) = 2.063   BETAL (1) = -6.055

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2177	.3355	.0857	-1.1125	-.8211	-.0578	-.0543	-.0295	.0100	.0398	.1663	.3492	-.4435	-.2661	-.4303
45.000		.3367	.1174	-1.1051	-.7317	-.0066	-.0353	-.0086	.0227	.0502	.1909		-.6171	-.6291	
90.000		.3157	.1189	-1.1009	-.7156	-.0001	-.0217	-.0140	.0464	.0895	.1947				
135.000		.2723	.0716	-1.1005	-.4458	.0090	-.0334	-.0303	.0464	.1284	.2224				
180.000	1.2177	.2428	.0259	-1.1063	-.3972	-.0028	-.0454	-.0295	.0637	.1603	.2336	.4630	-.2455	-.4893	-.5025
225.000		.2719	.0441	-1.1399	-.3621	-.1704	-.0322	-.0233	.0683	.1713	.2728				
270.000		.3452	.3611	-.8226	-.5110	-.3273	-.0477	-.0217	.0464	.1032	.1724	.5394	-.0002	.0965	-.4078
315.000		.3499	.1406	-1.1036	-.5690	-.2191	-.0724	-.0163	.0234	.0555	.2126				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1225	-.1950	-.0770	-.2106	.0388	-.0658
45.000	-.0976	-.1862			.2769	.1271
90.000	-.0871	.0130	.1367	.0651	.2328	.0697
135.000	-.0283	.0111			.1824	.0232
180.000	.0222	-.0524	.3180	-.0302	.1573	-.0138

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(5) =   2.063   BETAL (1) =   -6.055

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2176	-.4122			.2281	.0000
270.000	-.2761	-.2118	.1394	-.2056	-.1428	-.1626
315.000	-.2876	-.2248			-.1661	-.1703

ALPHAL(5) =   2.068   BETAL (2) =   -1.995

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2143	.3207	.0792	-1.1120	-.8205	-.0882	-.0681	-.0360	.0080	.0301	.1627	.3955	-.4567	-.3248	-.4555
45.000		.2843	.0645	-1.1085	-.7808	-.0103	-.0534	-.0260	.0076	.0363	.1750				
90.000		.2537	.0637	-1.1163	-.8186	-.0061	-.0553	-.0387	.0061	.0609	.1650		-.5998	-.6099	
135.000		.2437	.0420	-1.0995	-.5202	-.0038	-.0665	-.0499	.0309	.0939	.1773				
180.000	1.2143	.2406	.0324	-1.1102	-.3381	-.0638	-.0851	-.0561	.0366	.1181	.1857	.4312	-.2410	-.4823	-.5222
225.000		.2839	.0602	-1.1342	-.3458	-.2355	-.0642	-.0542	.0386	.1289	.2257				
270.000		.3691	.3934	-.8102	-.4847	-.4053	-.0735	-.0631	.0071	.0843	.2388	.5297	-.0975	.1527	-.4699
315.000		.3675	.1578	-1.0976	-.5416	-.3196	-.0785	-.0109	.0243	.0459	.2307				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1215	-.1853	.0147	-.1002	.0936	-.0101
45.000	-.1223	-.1147			.2239	.0889
90.000	-.1060	.0006	.1203	.0236	.1350	-.0008
135.000	-.0819	-.0044			.1191	-.0163
180.000	-.0261	-.1032	.3028	-.0681	.1516	-.0090
225.000	-.2495	-.3327			.1558	.0000
270.000	-.2586	-.2300	.0820	-.1768	-.1215	-.1271
315.000	-.2930	-.2571			-.1238	-.1218

ALPHAL(5) =   2.049   BETAL (3) =   2.105

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2126	.3036	.0695	-1.0989	-.8105	-.1089	-.0652	-.0337	.0020	.0142	.1606	.4739	-.4566	-.4524	-.4814
45.000		.2342	.0255	-1.1170	-.8390	-.0087	-.0602	-.0352	-.0014	.0215	.1564				
90.000		.2076	.0208	-1.1116	-.8481	.0099	-.0667	-.0475	.0097	.0433	.1335		-.5952	-.6079	
135.000		.2157	.0162	-1.0965	-.8325	-.0171	-.0882	-.0552	.0223	.0606	.1343				
180.000	1.2126	.2377	.0401	-1.0938	-.5590	-.1142	-.1132	-.0659	.0204	.0809	.1281	.4191	-.3038	-.4950	-.5240
225.000		.3136	.0971	-1.1094	-.3802	-.2637	-.0840	-.0725	.0261	.0987	.1603				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS17)

ALPHAL(5) =   2.049   BETAL (3) =   2.105

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4016	.4238	-.7964	-.5118	-.4485	-.0859	-.0986	-.0191	.0623	.2306	.4665	-.1660	.2871	-.4702
315.000		.3927	.1761	-1.0802	-.5672	-.3661	-.0744	-.0126	.0207	.0340	.2350				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1190	-.1717	.1364	-.0309	.2129	.0902
45.000	-.1399	-.0673			.1800	.0490
90.000	-.1264	-.0108	.1464	.0014	.0995	-.0285
135.000	-.1372	-.0267			.0640	-.0555
180.000	-.0795	-.1379	.2859	-.1093	.1176	-.0252
225.000	-.3068	-.2465			.0158	.0000
270.000	-.2928	-.2271	-.0413	-.1624	-.1082	-.1336
315.000	-.3064	-.2606			-.0304	-.0244

ALPHAL(5) =   2.041   BETAL (4) =   6.193

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1989	.2925	.0562	-1.1033	-.7936	-.1323	-.0578	-.0397	-.0032	.0045	.1498	.5176	-.4672	-.4896	-.5050
45.000		.1900	-.0229	-1.1271	-.8653	-.0329	-.0651	-.0470	-.0166	.0099	.1560		-.5918	-.6050	
90.000		.1703	-.0206	-1.1225	-.7032	-.0086	-.0628	-.0366	.0030	.0332	.1177				
135.000		.1776	-.0179	-1.1080	-.8634	-.0469	-.1055	-.0539	.0191	.0574	.1204				
180.000	1.1989	.2231	.0383	-1.1015	-.6018	-.1649	-.1436	-.0839	.0160	.0750	.0821	.3844	-.3788	-.4846	-.5228
225.000		.3272	.1208	-1.0996	-.3254	-.2814	-.1051	-.0751	.0118	.0871	.1238				
270.000		.4302	.4616	-.7954	-.5112	-.4657	-.1047	-.1408	-.0437	.0507	.2145	.4539	-.1955	.3547	-.4942
315.000		.4152	.2070	-1.0708	-.5336	-.3438	-.0574	-.0124	.0175	.0297	.2274				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1099	-.1228	.3040	.0562	.5713	.1874
45.000	-.1624	-.0315			.1393	.0080
90.000	-.1245	-.0091	.2028	-.0304	.0869	-.0458
135.000	-.1190	-.0452			.0442	-.0690
180.000	-.0464	-.1676	.2159	-.1490	.0003	-.0905
225.000	-.3010	-.2870			-.0201	.0000
270.000	-.3143	-.2094	.0019	-.1525	-.1386	-.2127
315.000	-.3155	-.2444			.1809	.1210

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(6) =   4.212   BETAL (1) =   -6.036

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1991	.3900	.1288	-1.1043	-.7088	-.0446	-.0169	-.0076	.0237	.0546	.1851	.3927	-.4522	-.3258	-.4421
45.000		.3621	.1302	-1.0934	-.6724	-.0088	-.0119	.0036	.0314	.0650	.2121		-.6101	-.6287	
90.000		.2899	.0987	-1.1121	-.6078	-.0469	-.0490	-.0564	-.0045	.0843	.2167				
135.000		.2126	.0204	-1.1090	-.4526	-.0225	-.0452	-.0529	.0350	.1341	.2198	.4493	-.2811	-.4638	-.4595
180.000	1.1991	.1835	-.0284	-1.0742	-.4186	-.0370	-.0463	-.0378	.0608	.1649	.2125				
225.000		.2041	-.0513	-1.1572	-.4063	-.2635	-.0320	-.0192	.0728	.1828	.2544	.5137	-.0724	.0673	-.4673
270.000		.3116	.3190	-.8697	-.5006	-.3410	-.0754	-.0436	.0361	.1146	.1982				
315.000		.3846	.2003	-1.0815	-.7110	-.1505	-.0351	-.0215	.0307	.0634	.2364				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1154	-.1913	-.0006	-.1433	.1081	-.0046
45.000	-.0736	-.1429			.3409	.1670
90.000	-.0748	.0153	.1918	.0534	.2097	.0593
135.000	-.0190	.0058			.1247	-.0208
180.000	.0187	-.0590	.2770	-.0473	.1281	-.0327
225.000	-.2016	-.4089			.2104	.0000
270.000	-.2706	-.2115	.1266	-.2030	-.1235	-.1479
315.000	-.2877	-.2195			-.1427	-.1487

ALPHAL(6) =   4.222   BETAL (2) =   -4.007

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2011	.3883	.1328	-1.1058	-.7084	-.0471	-.0221	-.0086	.0249	.0515	.1842	.4205	-.4362	-.3241	-.4391
45.000		.3353	.1059	-1.1023	-.7137	-.0097	-.0232	-.0142	.0237	.0553	.2030		-.5739	-.5895	
90.000		.2611	.0710	-1.1174	-.7830	-.0433	-.0618	-.0741	-.0134	.0760	.2030				
135.000		.2023	.0112	-1.1093	-.4133	-.0116	-.0583	-.0575	.0312	.1244	.2007	.4360	-.2512	-.4371	-.4651
180.000	1.2011	.1834	-.0264	-1.1039	-.3722	-.0421	-.0648	-.0490	.0542	.1577	.2077				
225.000		.2077	-.0438	-1.1553	-.3611	-.2925	-.0510	-.0378	.0634	.1661	.2477	.5310	-.0573	.1183	-.4196
270.000		.3264	.3351	-.8480	-.4703	-.3684	-.0941	-.0625	.0270	.1026	.2057				
315.000		.4010	.2090	-1.0648	-.6744	-.1797	-.0410	-.0235	.0300	.0619	.2371				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1005	-.1861	.0590	-.0947	.1384	.0157
45.000	-.0896	-.1070			.2819	.1209
90.000	-.0752	.0184	.1860	.0342	.1477	.0095
135.000	-.0298	.0016			.1123	-.0277
180.000	.0184	-.0657	.2928	-.0614	.1380	-.0192

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS17)

ALPHAL(6) =   4.222   BETAL (2) =   -4.007

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2056	-.3915			.1958	.0000
270.000	-.2557	-.2187	.1202	-.1822	-.1100	-.1375
315.000	-.2783	-.2333			-.1224	-.1236

ALPHAL(6) =   4.196   BETAL (3) =   .065

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1977	.3751	.1183	-1.0909	-.7343	-.0600	-.0423	-.0300	.0072	.0250	.1728	.4770	-.4490	-.4316	-.4742
45.000		.2767	.0587	-1.1102	-.7685	-.0111	-.0569	-.0485	-.0109	.0200	.1793				
90.000		.2062	.0264	-1.1152	-.8428	-.0183	-.0835	-.0854	-.0236	.0533	.1648		-.5876	-.5974	
135.000		.1854	-.0029	-1.0978	-.4641	-.0031	-.0765	-.0665	.0246	.0870	.1560				
180.000	1.1977	.1803	-.0121	-1.1031	-.3829	-.1085	-.0927	-.0685	.0330	.1130	.1614	.3996	-.2602	-.4684	-.5086
225.000		.2208	-.0156	-1.1464	-.3867	-.3545	-.0781	-.0635	.0399	.1251	.1988				
270.000		.3554	.3696	-.8276	-.4523	-.4420	-.1104	-.0880	.0085	.0826	.2325	.5051	-.1031	.1476	-.4753
315.000		.4279	.2336	-1.0534	-.6312	-.2083	-.0535	-.0259	.0192	.0448	.2447				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0885	-.1869	.1623	-.0368	.2265	.0921
45.000	-.1237	-.0556			.1885	.0582
90.000	-.1024	.0067	.1988	-.0049	.0832	-.0405
135.000	-.0871	-.0283			.0952	-.0355
180.000	-.0366	-.0973	.2492	-.0798	.1060	-.0393
225.000	-.2142	-.3145			.1095	.0000
270.000	-.2423	-.2517	.0155	-.1717	-.1053	-.1154
315.000	-.2746	-.2757			-.0749	-.0554

ALPHAL(6) =   4.169   BETAL (4) =   4.164

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1872	.3593	.1084	-1.0941	-.7387	-.0837	-.0545	-.0479	-.0125	.0005	.1514	.5133	-.4572	-.4734	-.4862
45.000		.2202	-.0014	-1.1257	-.8371	-.0423	-.0845	-.0775	-.0418	-.0083	.1571				
90.000		.1631	-.0180	-1.1307	-.8231	-.0187	-.0833	-.0752	-.0079	.0407	.1330		-.5802	-.5850	
135.000		.1612	-.0238	-1.0962	-.5792	-.0093	-.0829	-.0587	.0227	.0652	.1239				
180.000	1.1872	.1709	-.0122	-1.1088	-.4507	-.1532	-.1149	-.0737	.0300	.0951	.1143	.4262	-.3631	-.5174	-.5194
225.000		.2364	.0105	-1.1399	-.3812	-.3766	-.0976	-.0710	.0415	.1135	.1437				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(6) =   4.169   BETAL (4) =   4.164

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3875	.3956	-.8170	-.4743	-.4587	-.1056	-.0979	.0097	.0802	.2092	.4323	-.1509	.1885	-.4634
315.000		.4595	.2564	-1.0468	-.5845	-.2172	-.0456	-.0241	.0205	.0369	.2298				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0486	-.1913	.3041	.0052	.3453	.1871
45.000	-.1375	-.0485			.1466	.0172
90.000	-.1247	-.0139	.2256	-.0410	.0392	-.0868
135.000	-.1088	-.0386			.0603	-.0588
180.000	-.0234	-.1559	.2630	-.1433	.0865	-.0500
225.000	-.2752	-.2979			.0442	.0000
270.000	-.2987	-.2097	.0583	-.1279	-.0787	-.1511
315.000	-.3086	-.2272			.1016	.0626

ALPHAL(6) =   4.152   BETAL (5) =   6.225

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1795	.3438	.0934	-1.1055	-.7225	-.0976	-.0645	-.0576	-.0286	-.0151	.1343	.5672	-.5146	-.5200	-.5036
45.000		.1864	-.0353	-1.1508	-.8686	-.0629	-.0943	-.0892	-.0599	-.0170	.1546		-.5838	-.5904	
90.000		.1383	-.0423	-1.1496	-.5142	-.0119	-.0769	-.0664	-.0117	.0284	.1212				
135.000		.1457	-.0427	-1.1165	-.5272	-.0233	-.0889	-.0560	.0192	.0637	.1105				
180.000	1.1795	.1573	-.0171	-1.1207	-.4715	-.1799	-.1313	-.0711	.0226	.0930	.0909	.4059	-.3889	-.5105	-.5182
225.000		.2411	.0258	-1.1451	-.3624	-.3849	-.1066	-.0649	.0391	.1059	.1312				
270.000		.3988	.4107	-.8217	-.4882	-.4691	-.1155	-.0898	.0107	.0748	.2057	.4299	-.1626	.1918	-.4935
315.000		.4717	.2717	-1.0521	-.5484	-.1986	-.0298	-.0232	.0169	.0283	.2191				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0266	-.1866	.4174	.0394	.4432	.2318
45.000	-.1366	-.0362			.1242	.0077
90.000	-.1265	-.0027	.2691	-.0403	.0357	-.1004
135.000	-.1097	-.0667			.0711	-.0695
180.000	-.0244	-.1729	.2240	-.1440	.0269	-.0914
225.000	-.2742	-.3299			.0127	.0000
270.000	-.3039	-.1966	.0880	-.1382	-.0992	-.1942
315.000	-.3100	-.2357			.1718	.1163

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(7) =   6.376   BETAL (1) =   -3.956

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI / X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.1710	.4444	.1764	-1.0879	-.6274	-.0453	-.0044	.0088	.0350	.0613	.2035	.4777	-.4522	-.3887	-.4483
45.000		.3496	.1231	-1.0995	-.6682	-.0411	-.0283	-.0194	.0084	.0475	.2100		-.5676	-.5521	
90.000		.2170	.0376	-1.1243	-.4914	-.1459	-.1411	-.1495	-.0824	.0483	.2004				
135.000		.1393	-.0378	-1.0702	-.4495	-.0712	-.0735	-.0704	.0210	.1247	.1874	.4203	-.2969	-.4565	-.4596
180.000	1.1710	.1242	-.0757	-1.1147	-.4149	-.0891	-.0631	-.0461	.0475	.1524	.1920				
225.000		.1265	-.1426	-1.1928	-.3585	-.3630	-.0515	-.0360	.0609	.1712	.2223	.4641	-.0951	.0292	-.4638
270.000		.2696	.2654	-.8823	-.4091	-.3421	-.0542	-.0449	.0471	.1170	.1939				
315.000		.4297	.2646	-1.0458	-.5935	-.1326	.0030	.0065	.0475	.0740	.2499				

PHI / X/LS	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0862	-.1827	.1543	-.0495	.2343	.0856
45.000	-.0761	-.0965			.3073	.1420
90.000	-.0812	.0035	.2405	-.0005	.1601	.0122
135.000	-.0301	-.0251			.0543	-.0755
180.000	.0119	-.0980	.2872	-.0997	.1505	-.0071
225.000	-.1873	-.3895			.1783	.0000
270.000	-.2552	-.2224	.1192	-.1658	-.0912	-.1208
315.000	-.2968	-.2388			-.0878	-.0893

ALPHAL(7) =   6.363   BETAL (2) =   -1.930

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI / X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.1682	.4394	.1690	-1.0704	-.6325	-.0541	-.0128	-.0070	.0219	.0423	.1966	.4986	-.4227	-.4192	-.4625
45.000		.3183	.0895	-1.0977	-.7048	-.0522	-.0482	-.0390	-.0163	.0254	.1973		-.5449	-.5314	
90.000		.1937	.0170	-1.1298	-.5564	-.1405	-.1465	-.1519	-.0764	.0488	.1839				
135.000		.1366	-.0366	-1.1230	-.4278	-.0655	-.0829	-.0687	.0154	.1022	.1594	.3953	-.2692	-.4428	-.4633
180.000	1.1682	.1235	-.0675	-1.1181	-.4183	-.1127	-.0779	-.0517	.0523	.1540	.2008	.4491	-.1352	.0796	-.4629
225.000		.1289	-.1315	-1.1896	-.3483	-.3844	-.0637	-.0390	.0523	.1106	.2211				
270.000		.2874	.2774	-.8616	-.3951	-.3593	-.0741	-.0529	.0362	.0676	.2622				
315.000		.4482	.2812	-1.0382	-.5385	-.1465	-.0055	.0011	.0388						

PHI / X/LS	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0740	-.1969	.1917	-.0297	.2619	.1126
45.000	-.1042	-.0715			.2589	.1034
90.000	-.0914	-.0017	.2411	-.0243	.1308	-.0204
135.000	-.0452	-.0402			.0579	-.0727
180.000	.0036	-.1077	.2677	-.0876	.1316	-.0250

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (RETS17)

ALPHAL(7) = 6.363 BETAL (2) = -1.930

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2004	-.3704			.1697	.0000
270.000	-.2568	-.2194	.1188	-.1516	-.0683	-.1008
315.000	-.2831	-.2553			-.0502	-.0566

ALPHAL(7) = 6.334 BETAL (3) = .120

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1672	.4304	.1554	-1.0840	-.6350	-.0663	-.0227	-.0207	.0067	.0257	.1850	.5172	-.4184	-.4432	-.4898
45.000		.2817	.0566	-1.1142	-.7545	-.0613	-.0682	-.0659	-.0396	.0004	.1773		-.5636	-.5461	
90.000		.1631	-.0088	-1.1428	-.7110	-.1255	-.1481	-.1473	-.0624	.0442	.1642				
135.000		.1279	-.0452	-1.1311	-.4157	-.0517	-.0825	-.0736	.0146	.0838	.1342				
180.000	1.1672	.1198	-.0665	-1.1292	-.4146	-.1361	-.0825	-.0601	.0384	.1184	.1380	.3549	-.3089	-.4494	-.4832
225.000		.1322	-.1242	-1.1926	-.3707	-.3943	-.0771	-.0535	.0473	.1319	.1703				
270.000		.3014	.2886	-.8645	-.4352	-.3764	-.0883	-.0682	.0246	.0988	.2246	.4248	-.1552	.2245	-.4533
315.000		.4645	.2879	-1.0413	-.5425	-.1524	-.0126	-.0010	.0354	.0530	.2614				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0422	-.2418	.2661	-.0191	.3176	.1593
45.000	-.1365	-.0647			.2131	.0687
90.030	-.1164	-.0188	.2371	-.0431	.0869	-.0571
135.000	-.0689	-.0620			.0691	-.0621
180.000	-.0337	-.1125	.2460	-.0911	.0939	-.0528
225.000	-.2008	-.3577			.1237	.0000
270.000	-.2555	-.2429	.0892	-.1523	-.0760	-.0898
315.000	-.2728	-.2590			.0002	.0054

ALPHAL(7) = 6.301 BETAL (4) = 2.172

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1664	.4204	.1537	-1.0883	-.6193	-.0774	-.0362	-.0332	-.0042	.0100	.1690	.5486	-.4055	-.4531	-.4797
45.000		.2465	.0217	-1.1308	-.7876	-.0725	-.0925	-.0871	-.0609	-.0176	.1659				
90.000		.1398	-.0302	-1.1436	-.8078	-.1057	-.1368	-.1334	-.0482	.0449	.1544		-.5555	-.5423	
135.000		.1309	-.0503	-1.1177	-.4068	-.0355	-.0821	-.0686	.0215	.0710	.1106				
180.000	1.1664	.1201	-.0623	-1.1242	-.4057	-.1594	-.0875	-.0617	.0357	.1127	.1129	.3236	-.3151	-.4565	-.4832
225.000		.1433	-.1068	-1.1787	-.3839	-.4003	-.0832	-.0570	.0414	.1241	.1452				

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS17)

ALPHAL(7) =   6.301   BETAL (4) =   2.172

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6965	.7280	.7290	.7360	.7370
PHI															
270.000		.3214	.3052	-.8443	-.4476	-.3832	-.0971	-.0887	.0184	.0930	.2327	.4361	-.1859	.3073	-.4388
315.000		.4811	.3029	-1.0271	-.5181	-.1618	-.0104	-.0023	.0364	.0507	.2625				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0367	-.2530	.3693	-.0190	.4248	.2151
45.000	-.1518	-.0508			.1739	.0476
90.000	-.1205	-.0297	.2602	-.0595	.0487	-.0784
135.000	-.0930	-.0686			.0560	-.0645
180.000	-.0678	-.1387	.2255	-.1100	.0934	-.0629
225.000	-.2632	-.2839			.0676	.0000
270.000	-.2758	-.2231	.0184	-.1524	-.0772	-.1136
315.000	-.2880	-.2425			.0460	.0465

ALPHAL(7) =   6.275   BETAL (5) =   4.219

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1535	.4110	.1398	-1.0967	-.6239	-.0929	-.0522	-.0511	-.0263	-.0137	.1511	.5771	-.4687	-.4311	-.4927
45.000		.2082	-.0134	-1.1463	-.8291	-.1024	-.1270	-.1179	-.0897	-.0422	.1523				
90.000		.1099	-.0580	-1.1525	-.5236	-.1100	-.1414	-.1218	-.0418	.0392	.1376		-.5415	-.5419	
135.000		.1149	-.0619	-1.1307	-.4168	-.0348	-.0840	-.0611	.0168	.0585	.0937				
180.000	1.1535	.1040	-.0638	-1.1360	-.4188	-.1948	-.0968	-.0592	.0296	.0983	.0937	.3327	-.3122	-.4699	-.4923
225.000		.1374	-.0991	-1.1923	-.3892	-.4205	-.0871	-.0626	.0276	.1115	.1338				
270.000		.3302	.3169	-.8471	-.4599	-.4045	-.1154	-.1040	-.0040	.0814	.2243	.4303	-.2108	.4233	-.4493
315.000		.4969	.3150	-1.0346	-.4958	-.1588	-.0096	-.0035	.0299	.0448	.2629				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0089	-.2676	.4617	-.0039	.4999	.2459
45.000	-.1461	-.0501			.1455	.0266
90.000	-.1170	-.0230	.2914	-.0571	.0228	-.1008
135.000	-.0837	-.0676			.0305	-.0751
180.000	-.0573	-.1642	.2308	-.1289	.0745	-.0509
225.000	-.2623	-.2890			.0397	.0000
270.000	-.2955	-.2149	.0459	-.1235	-.0923	-.1536
315.000	-.2882	-.2409			.1285	.1106

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT
SCALE =   .0300 SCALE

PARAMETRIC DATA

MACH =	1.100	RN/FT =	2.250
ELV-IB =	10.000	ELV-OB =	4.000
RUDDER =	.000	SPDBRK =	.000

ALPHAL(1) = -6.597   BETAL (1) =   .235

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2939	.1850	.0944	-.6828	-.5350	-.2027	-.1155	-.1066	-.1203	-.0205	.2193	.4376	-.3058	-.4084	-.4941
45.000		.2230	.1327	-.6821	-.5526	-.1498	-.1493	-.1671	-.2136	-.1132	.1775		-.5128	-.4910	
90.000		.2743	.1946	-.6739	-.4821	-.3595	-.2938	-.3170	-.2644	-.1258	.1177				
135.000		.4316	.3054	-.6294	-.3436	-.0022	-.2095	-.2463	-.2549	-.0307	.2424				
180.000	1.2939	.5893	.4487	-.5839	.1198	.0878	-.1124	-.1688	-.1717	.0810	.2719	.6295	-.2052	-.3885	-.6134
225.000		.5735	.5517	-.5468	.2597	.1518	-.0933	-.1541	-.1377	.1096	.3103				
270.000		.334!	.4227	-.5168	.0463	-.4312	-.5869	-.2217	-.0830	.0280	.2824	.7226	.1899	.2334	-.4849
315.000		.1785	-.0062	-.7659	-.5600	-.4052	-.1381	-.1032	-.0745	.0053	.3250				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1505	-.2933	.0248	-.1662	-.0072	-.1038
45.000	-.1396	-.2074			-.0343	-.1089
90.000	-.2353	-.1059	.1446	-.1222	.1144	.0758
135.000	-.1234	-.1164			.3895	.2840
180.000	-.1828	-.1703	.5034	-.0195	.3762	.2279
225.000	-.2748	-.3057			.0370	.0000
270.000	-.3257	-.2875	-.0997	-.2347	-.1849	-.1760
315.000	-.2799	-.3431			-.1208	-.1217

ALPHAL(2) = -4.459   BETAL (1) =   -3.966

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3244	.2905	.1542	-.6773	-.5674	-.2123	-.0694	-.0968	-.1067	-.0108	.2457	.3381	-.2719	-.2495	-.4147
45.000		.3262	.2039	-.6721	-.5055	-.1419	-.0958	-.1423	-.1670	-.0456	.2423		-.4845	-.4783	
90.000		.3956	.2894	-.6529	-.4308	-.2143	-.1921	-.2287	-.2534	-.1230	.1661				
135.000		.4856	.3551	-.6138	-.3702	.0720	-.0245	-.1050	-.1411	.0649	.3273				
180.000	1.3244	.5409	.3960	-.6053	-.3293	.1776	.0135	-.0752	-.1285	.1420	.3997	.7066	-.0889	-.3294	-.5406
225.000		.5381	.4702	-.5911	-.3362	.1824	-.0297	-.1067	-.1176	.1474	.4628				
270.000		.4317	.4977	-.4751	-.4574	-.3602	-.5867	-.2500	-.0913	.0340	.3013	.8632	.3054	.3478	-.3307
315.000		.3159	.1152	-.7193	-.5108	-.4281	-.0869	-.0875	-.0719	.0238	.3846				

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ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS18)

ALPHAL(2) = -4.459   BETAL (1) = -3.966

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1659	-.2771	-.1360	-.2299	-.1212	-.1857
45.000	-.1529	-.2023			.0434	.0698
90.000	-.2877	-.1467	.0170	-.0019	.2450	.1614
135.000	-.0357	-.0783			.4439	.3204
180.000	-.1241	-.0861	.5026	.0815	.3983	.2388
225.000	-.3384	-.3523			.1644	.0000
270.000	-.3421	-.3062	-.0159	-.2282	-.1812	-.1792
315.000	-.3272	-.3052			-.1829	-.2140

ALPHAL(2) = -4.393   BETAL (2) = .151

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3084	.2378	.1530	-.6770	-.5546	-.2127	-.0753	-.0715	-.0914	-.0118	.2511	.4108	-.2942	-.3762	-.4459
45.000		.2722	.1898	-.6732	-.5188	-.1001	-.0832	-.1168	-.1291	-.0289	.2279		-.5118	-.5035	
90.000		.3212	.2371	-.6636	-.4711	-.2255	-.1853	-.2264	-.1976	-.0756	.1921				
135.000		.4160	.3113	-.6314	-.3926	.0099	-.1284	-.1822	-.2025	.0090	.2831	.6575	-.2393	-.4325	-.5739
180.000	1.3084	.5262	.4026	-.6054	-.2688	.1157	-.0955	-.1555	-.1557	.0884	.2944				
225.000		.5341	.4977	-.5807	-.2695	.1611	-.1089	-.1544	-.1527	.1157	.3114	.7039	.0954	.1578	-.4527
270.000		.3851	.5011	-.5026	-.4011	-.3351	-.5929	-.2099	-.0903	.0328	.2811				
315.000		.2543	.1187	-.7217	-.4775	-.4302	-.1000	-.0842	-.0732	.0076	.3442				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1565	-.3328	.0453	-.1508	.0439	-.0564
45.000	-.0769	-.1930			.0152	-.0499
90.000	-.2163	-.0826	.0272	-.0437	.1364	.0912
135.000	-.1036	-.0803			.3325	.2621
180.000	-.1782	-.1353	.4205	.0238	.3493	.2179
225.000	-.3088	-.3146			.0713	.0000
270.000	-.3061	-.2727	-.0481	-.2262	-.1806	-.1605
315.000	-.2859	-.3318			-.1399	-.1251

DATE 21 OCT 75   IA8IA - PRESSURE SOURCE DATA TABULATION

ARCII-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS18)

ALPHAL(2) =   -4.362   BETAL (3) =   4.270

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2906	.1956	.1584	-.6770	-.5462	-.2103	-.0842	-.0599	-.0808	.0372	.2196	.4703	-.3762	-.4439	-.5051
45.000		.2237	.1746	-.6732	-.5259	-.0960	-.0774	-.0904	-.1254	.0433	.2431		-.5491	-.5745	
90.000		.2499	.1897	-.6749	-.5093	-.2340	-.1806	-.2032	-.1847	.0423	.2390				
135.000		.3313	.2406	-.6497	-.4312	-.0872	-.2348	-.2571	-.2175	.0089	.2319				
180.000	1.2906	.4746	.3877	-.6081	-.0984	.0048	-.2180	-.2238	-.2070	.0764	.1627	.6246	-.2249	-.4879	-.5635
225.000		.5227	.5189	-.5699	.1708	.1303	-.1810	-.1827	-.0934	.1149	.2084				
270.000		.3451	.5234	-.4667	-.2100	-.3341	-.4371	-.1854	-.0617	.0651	.2421	.5958	.1639	.2382	-.4532
315.000		.1980	.1385	-.7173	-.4887	-.4008	-.1158	-.0849	-.0644	.0386	.2881				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1427	-.3054	.0858	-.0442	.3071	.2333
45.000	-.0575	-.2546			.1733	.0398
90.000	-.1946	-.0685	.0707	-.0089	.0296	-.0668
135.000	-.1724	-.0983			.2001	.1347
180.000	-.1257	-.2326	.2838	-.1114	.1057	-.0091
225.000	-.3010	-.3677			-.0260	.0000
270.000	-.3176	-.2909	-.0202	-.1797	-.1420	-.1847
315.000	-.2824	-.3555			-.0473	-.0183

ALPHAL(3) =   -.118   BETAL (1) =   -6.074

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3362	.4113	.2619	-.6514	-.4857	-.1483	-.0090	-.0425	-.0514	.0674	.3184	.3774	-.2439	-.0754	-.4022
45.000		.4308	.3061	-.6401	-.4273	-.2068	.0296	-.0131	-.0719	.0524	.3378		-.4221	-.4217	
90.000		.4445	.3431	-.6261	-.3884	-.1700	.0450	-.0128	-.0747	.0878	.3337				
135.000		.4305	.3143	-.6218	-.4195	.0867	.0959	.0111	-.0493	.1847	.4211				
180.000	1.3362	.4061	.2776	-.6309	-.4641	.1573	.0778	-.0124	-.0469	.2368	.4691	.6805	-.0843	-.2903	-.4358
225.000		.4274	.3133	-.6424	-.4941	-.0636	.0337	-.0504	-.0708	.2402	.5245				
270.000		.4634	.5545	-.4843	-.5411	-.3243	-.3307	-.1652	-.0490	.1102	.2558	.9139	.3966	.3523	-.3112
315.000		.4243	.3006	-.6485	-.5073	-.2661	-.0880	-.0511	-.0194	.0806	.4007				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1430	-.3144	-.1357	-.2042	.0387	.0326
45.000	-.0345	-.2726			.2255	.1742
90.000	-.1430	-.0992	.0476	.1130	.2751	.1985
135.000	.0378	-.0803			.3525	.2487
180.000	-.1036	-.0421	.3661	.1072	.3100	.1851

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS18)

ALPHAL(3) =   -.118   BETAL (1) = -6.074

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2689	-.4012			.2245	.0000
270.000	-.3097	-.2827	-.0064	-.2380	-.1795	-.1657
315.000	-.2861	-.2976			-.2048	-.1823

ALPHAL(3) =   -.098   BETAL (2) = -4.027

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3282	.3799	.2610	-.6496	-.4828	-.1586	-.0045	-.0309	-.0486	.0286	.3089	.3960	-.2258	-.0977	-.3865
45.000		.3954	.2860	-.6434	-.4397	-.1955	.0387	-.0181	-.0637	.0239	.3290				
90.000		.4002	.3132	-.6335	-.4140	-.1138	.0462	-.0277	-.0798	.0693	.3195		-.4256	-.4285	
135.000		.3992	.2998	-.6223	-.4299	.0705	.0826	-.0085	-.0820	.1567	.3926				
180.000	1.3282	.3913	.2833	-.6281	-.4526	.1353	.0603	-.0407	-.0710	.2048	.4411	.6840	-.1114	-.3165	-.4675
225.000		.4198	.3235	-.6386	-.4843	-.0616	.0082	-.0750	-.0837	.2105	.4944				
270.000		.4501	.5667	-.4784	-.4959	-.3311	-.3096	-.1546	-.0475	.0967	.2874	.8824	.3564	.3502	-.3313
315.000		.4071	.3032	-.6501	-.4911	-.2842	-.0844	-.0527	-.0328	.0523	.3857				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1472	-.2948	-.1071	-.1689	.0595	.0500
45.000	-.0517	-.2334			.2109	.1652
90.000	-.1479	-.0724	.0351	.1089	.2442	.1676
135.000	.0077	-.0530			.3263	.2199
180.000	-.1324	-.0486	.3707	.1072	.3157	.1899
225.000	-.2866	-.3847			.2349	.0000
270.000	-.2992	-.2918	-.0017	-.2077	-.1641	-.1624
315.000	-.2764	-.3189			-.2009	-.1709

ALPHAL(3) =   -.091   BETAL (3) =   .060

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3158	.3398	.2569	-.6527	-.4760	-.1720	-.0303	-.0231	-.0537	.0048	.2674	.4308	-.3288	-.2737	-.4028
45.000		.3333	.2562	-.6513	-.4678	-.1676	.0058	-.0238	-.0760	.0229	.2985				
90.000		.3409	.2731	-.6438	-.4536	-.0903	-.0032	-.0599	-.1062	.0640	.2920		-.4744	-.4988	
135.000		.3570	.2776	-.6295	-.4441	.0313	.0119	-.0746	-.1227	.1091	.3406				
180.000	1.3158	.3742	.3030	-.6271	-.4269	.0896	-.0152	-.1083	-.1350	.1501	.3614	.6782	-.2359	-.4235	-.4992
225.000		.4104	.3601	-.6305	-.4455	-.0371	-.0551	-.1193	-.1340	.1648	.3618				

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS18)

ALPHAL(3) =   -.091   BETAL (3) =   .060

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4317	.5865	-.4641	-.5068	-.3570	-.2660	-.1509	-.0663	.0612	.2814	.7884	.2408	.3093	-.4486
315.000		.3787	.3103	-.6518	-.4770	-.2976	-.0722	-.0557	-.0547	.0236	.3475				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1430	-.2774	-.0722	-.1231	.1435	.1068
45.000	-.0380	-.2523			.1456	.0717
90.000	-.1326	-.0648	.0326	.0721	.1875	.1044
135.000	-.0620	-.0488			.2463	.1672
180.000	-.1611	-.0770	.3029	.0542	.2710	.1645
225.000	-.2913	-.3130			.0545	.0000
270.000	-.2849	-.2594	-.0293	-.1963	-.1564	-.1479
315.000	-.2604	-.3052			-.1537	-.1216

ALPHAL(3) =   -.080   BETAL (4) =   4.186

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3003	.2986	.2514	-.6561	-.4632	-.2175	-.0544	-.0341	-.0602	.0383	.2352	.4007	-.2357	-.3297	-.4172
45.000		.2752	.2208	-.6617	-.4930	-.1609	-.0255	-.0355	-.0918	.0608	.2584		-.5198	-.5150	
90.000		.2793	.2270	-.6555	-.4950	-.0737	-.0314	-.0739	-.1488	.1001	.2536				
135.000		.3052	.2370	-.6426	-.4733	-.0418	-.0657	-.1327	-.1429	.1162	.2639				
180.000	1.3003	.3506	.2948	-.6321	-.4021	-.0269	-.1124	-.1691	-.1265	.1326	.2184	.5732	-.2213	-.4702	-.4967
225.000		.4058	.3847	-.6267	-.3997	-.0279	-.1361	-.1485	-.0500	.1661	.2427				
270.000		.4120	.6079	-.4472	-.5161	-.3532	-.2666	-.1375	-.0363	.0926	.2865	.7133	.1386	.3566	-.4930
315.000		.3641	.3283	-.6504	-.4652	-.2992	-.0935	-.0492	-.0315	.0550	.3387				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1272	-.2156	.0746	-.0161	.1566	.0965
45.000	-.0725	-.1950			.2150	.1223
90.000	-.1293	-.0953	.1164	-.0082	.1432	.0241
135.000	-.1228	-.0425			.0876	.0072
180.000	-.0821	-.1658	.2764	-.0858	.1432	.0291
225.000	-.2614	-.3943			.0443	.0000
270.000	-.2872	-.2736	.0742	-.1534	-.0968	-.1371
315.000	-.2678	-.3251			-.0048	.0308

ARC11-019 IA81 LVAP(ELHL SEALED)　SRM BOOSTER　　　　　　　(RETS18)

ALPHAL(3) = -.083　　BETAL (5) = 6.250

SECTION (1)SRM BOOSTER　　　　　　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2909	.2751	.2448	-.6535	-.4537	-.2343	-.0719	-.0478	-.0404	.0376	.2533	.4573	-.2514	-.3779	-.4446
45.000		.2462	.2043	-.6628	-.5056	-.1377	-.0441	-.0483	-.0764	.0629	.2670				
90.000		.2517	.2074	-.6631	-.5080	-.0652	-.0482	-.0816	-.1427	.1022	.2598		-.5372	-.5666	
135.000		.2689	.2198	-.6494	-.4853	-.0757	-.1021	-.1560	-.0916	.1118	.2561				
180.000	1.2909	.3247	.2910	-.6338	-.3832	-.0652	-.1608	-.1938	-.0711	.1313	.1850	.5397	-.2032	-.3899	-.4867
225.000		.3963	.3942	-.6247	-.3743	-.0174	-.1787	-.1632	-.0324	.1505	.2427				
270.000		.4004	.6153	-.4388	-.5183	-.3200	-.2446	-.1306	-.0222	.1000	.2906	.6635	.1667	.2850	-.4708
315.000		.3529	.3385	-.6467	-.4464	-.2858	-.1093	-.0545	-.0171	.0621	.3370				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1119	-.2177	.1335	.0280	.2747	.1992
45.000	-.0946	-.1715			.1470	.0508
90.000	-.1332	-.0938	.1616	-.0298	.1350	.0398
135.000	-.1213	-.0762			.0745	-.0220
180.000	-.0673	-.1749	.1874	-.1116	.0460	-.0480
225.000	-.2934	-.4137			.0206	.0000
270.000	-.3127	-.2753	.0994	-.1405	-.0952	-.1506
315.000	-.2812	-.3272			.0721	.0974

ALPHAL(4) = 4.219　　BETAL (1) = -3.959

SECTION (1)SRM BOOSTER　　　　　　　　　DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3179	.4964	.3559	-.6352	-.3800	-.1087	.0207	.0169	-.0002	.0377	.3151	.4834	-.2056	-.2582	-.3877
45.000		.4459	.3304	-.6331	-.3949	-.1608	.0601	.0378	-.0129	.0247	.3629				
90.000		.3658	.2861	-.6458	-.4348	-.2849	.0838	.0211	-.0701	.0916	.3547		-.4307	-.4420	
135.000		.2995	.2157	-.6476	-.5009	-.0430	.0827	.0149	-.0585	.1780	.3660				
180.000	1.3179	.2714	.1741	-.6453	-.5414	-.0650	.0502	-.0019	-.0582	.2199	.3970	.6168	-.2692	-.3534	-.3822
225.000		.2927	.1518	-.7011	-.3188	-.2785	.0101	.0163	-.0336	.2329	.4100				
270.000		.4125	.5063	-.5032	-.4260	-.2670	-.0533	-.0081	-.0142	.1571	.3015	.5996	.1467	.1260	-.3977
315.000		.4919	.4277	-.6064	-.3628	-.1215	-.0235	-.0060	.0029	.0790	.3793				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0795	-.2404	.0600	-.0484	.2048	.1557
45.000	-.0011	-.2065			.3506	.2751
90.000	-.0606	-.0375	.1718	.0775	.1718	.0747
135.000	.0438	-.0558			.2061	.1151
180.000	-.0389	-.0412	.3334	.0459	.2370	.1237

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS18)

ALPHAL(4) =   4.219   BETAL (1) =   -3.959

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2042	-.3739			.2500	.0000
270.000	-.2591	-.2509	.0641	-.1575	-.0906	-.1148
315.000	-.2340	-.2702			-.0776	-.0772

ALPHAL(4) =   4.201   BETAL (2) =   .108

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3037	.4608	.3456	-.6348	-.3816	-.0997	-.0113	-.0058	-.0278	-.0151	.3125	.5542	-.2317	-.3151	-.4329
45.000		.3725	.2846	-.6548	-.4281	-.1750	.0141	.0017	-.0612	-.0164	.3337		-.4767	-.4936	
90.000		.3057	.2436	-.6631	-.4708	-.2246	.0337	-.0082	-.1142	.0769	.3098				
135.000		.2688	.2150	-.6488	-.5044	-.0289	.0416	-.0275	-.0920	.1422	.3190				
180.000	1.3037	.2516	.1985	-.6553	-.5267	-.0658	.0234	-.0561	-.0872	.1771	.3361	.5718	-.2972	-.4081	-.4219
225.000		.2853	.1799	-.6973	-.3324	-.3232	.0031	-.0399	-.0568	.1880	.3272				
270.000		.4080	.5335	-.4874	-.3907	-.3327	-.0722	-.0488	-.0458	.1231	.3139	.5407	.0753	.1242	-.4447
315.000		.4876	.4439	-.6078	-.3507	-.1582	-.0433	-.0261	-.0144	.0468	.3743				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0746	-.2264	.1409	.0014	.2652	.2123
45.000	-.0243	-.1514			.2429	.1721
90.000	-.1015	-.0314	.1811	.0577	.1316	.0227
135.000	.0266	-.0758			.2694	.1762
180.000	-.0816	-.0334	.2779	.0399	.1694	.0576
225.000	-.2213	-.3600			.1752	.0000
270.000	-.2559	-.2433	.0437	-.1408	-.0742	-.0983
315.000	-.2291	-.2874			.0000	.0213

ALPHAL(4) =   4.158   BETAL (3) =   4.230

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2845	.4160	.3386	-.6360	-.3863	-.1701	-.0784	-.0293	-.0438	.0330	.2876	.6366	-.2642	-.3567	-.4735
45.000		.2897	.2310	-.6649	-.4652	-.1786	-.0485	-.0304	-.1017	.0385	.2945		-.5058	-.5237	
90.000		.2354	.2004	-.6660	-.5093	-.1552	-.0008	-.0311	-.1268	.1065	.2600				
135.000		.2254	.1952	-.6448	-.5154	-.0462	.0095	-.0603	-.1016	.1489	.2692				
180.000	1.2845	.2182	.1987	-.6526	-.5205	-.1309	-.0259	-.0956	-.0722	.1670	.2310	.4916	-.2525	-.4213	-.4137
225.000		.2429	.2066	-.6885	-.3181	-.3300	-.0324	-.0829	-.0340	.1838	.2395				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS18)

ALPHAL(4) =   4.158   BETAL (3) =   4.230

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
270.000		.3582	.5639	-.4629	-.3679	-.3377	-.0760	-.0726	-.0316	.1343	.3006	.4796	.0049	.1582	-.4536
315.000		.4642	.4697	-.6008	-.3093	-.2057	-.0753	-.0301	-.0100	.0701	.3654				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0745	-.1971	.2400	.0780	.3691	.2959
45.000	-.0638	-.1277			.1995	.1082
90.000	-.1061	-.0353	.2101	.0268	.1044	-.0140
135.000	-.0285	-.0657			.1260	.0289
180.000	-.0156	-.1101	.2197	-.0576	.0951	-.0161
225.000	-.2337	-.3851			.0728	.0000
270.000	-.2798	-.2324	.1545	-.0981	-.0315	-.1213
315.000	-.2449	-.2557			.1332	.1201

ALPHAL(5) =   6.345   BETAL (1) =   .170

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.2890	.5109	.3847	-.6173	-.3134	-.0788	-.0405	.0160	.0028	-.0065	.3621	.6180	-.1346	-.2885	-.4473
45.000		.3740	.2841	-.6468	-.4059	-.1276	-.0292	-.0020	-.0590	-.0399	.3549				
90.000		.2433	.2072	-.6691	-.4847	-.2915	-.0189	-.0308	-.1502	.0693	.3256		-.4671	-.4807	
135.000		.1997	.1646	-.6598	-.5365	-.0578	.0239	-.0171	-.0754	.1321	.2900				
180.000	1.2890	.1898	.1388	-.6608	-.4516	-.1286	.0174	-.0264	-.0423	.1822	.2948	.4985	-.3108	-.3968	-.3741
225.000		.1990	.0733	-.7312	-.3522	-.2919	-.0073	-.0137	-.0137	.1927	.2839				
270.000		.3510	.4616	-.5128	-.3999	-.2604	-.0258	-.0109	-.0154	.1466	.3197	.4497	-.0281	.1139	-.4491
315.000		.5151	.4959	-.5805	-.2685	-.1156	-.0433	.0220	.0225	.0500	.4202				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0504	-.2214	.1925	.0566	.3332	.2679
45.000	-.0253	-.1486			.2758	.2147
90.000	-.0758	-.0388	.2145	.0154	.1320	.0166
135.000	.0262	-.0900			.1766	.0909
180.000	-.0131	-.0571	.3226	.0058	.1883	.0807
225.000	-.2160	-.3875			.1848	.0000
270.000	-.2414	-.2276	.0789	-.1198	-.0415	-.0714
315.000	-.2218	-.2645			.0578	.0875

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS19)   (17 OCT 75)

	REFERENCE DATA			
SREF	= 2690.0000 SQ.FT.	XMRP	= 976.0000 IN. XT
LREF	= 1297.0000 INCHES	YMRP	= .0000 IN. YT
BREF	= 1297.0000 INCHES	ZMRP	= 400.0000 IN. ZT
SCALE	= .0300 SCALE		

PARAMETRIC DATA

MACH	=	1.250	RN/FT	=	2.250
ELV-IB	=	10.000	ELV-OB	=	4.000
RUDDER	=	.000	SPDBRK	=	.000

ALPHAL(1) =   -4.543   BETAL (1) =   -3.976

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3970	.1317	.1988	-.4881	-.4160	-.3010	-.1035	-.0760	-.1274	-.0933	.2215	.2864	-.1088	-.0920	-.3237
45.000		.1975	.2550	-.4748	-.3701	-.2672	-.1503	-.1157	-.1700	-.1755	.2099		-.2826	-.2541	
90.000		.2866	.3380	-.4508	-.3136	-.2481	-.1878	-.2453	-.2330	-.2308	.1248				
135.000		.3650	.3979	-.4230	-.2810	-.0368	.0338	-.1002	-.1357	-.1129	.3352				
180.000	1.3970	.4123	.4277	-.4211	-.2708	.1945	.1030	-.0324	-.0814	-.0573	.4222	.7189	.0278	-.1266	-.4474
225.000		.4389	.5064	-.4087	-.2548	.2194	.0855	-.0276	-.0692	.0442	.4826				
270.000		.3913	.5864	-.3209	-.3071	-.2720	-.4182	-.1103	-.0499	.0291	.3403	.8985	.4269	.4143	-.2739
315.000		.1628	.1916	-.5309	-.5186	-.4082	-.1652	-.1187	-.0695	-.0425	.4036				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1263	-.2465	-.1019	-.1968	-.0848	-.1207
45.000	-.0408	-.2628			.0347	.0673
90.000	-.2490	-.2290	.0912	-.0209	.1820	.1952
135.000	.0584	-.2140			.4252	.3865
180.000	.0513	-.1936	.2608	.2214	.4472	.3136
225.000	-.2475	-.2956			.0751	.0000
270.000	-.2889	-.2402	-.0354	-.1788	-.1391	-.1070
315.000	-.2497	-.2523			-.1245	-.1565

ALPHAL(1) =   -4.472   BETAL (2) =   .144

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3755	.0801	.1781	-.4935	-.4156	-.2853	-.0694	-.0623	-.0856	-.0735	.2168	.3835	-.2006	-.1957	-.3449
45.000		.1105	.2098	-.4764	-.3796	-.2596	-.1049	-.0869	-.1265	-.1220	.1850		-.3087	-.2731	
90.000		.1723	.2654	-.4618	-.3503	-.2701	-.2143	-.1965	-.2165	-.1493	.1571				
135.000		.2492	.3343	-.4324	-.3038	-.0307	-.0720	-.1775	-.2091	-.0520	.2538				
180.000	1.3755	.3514	.4216	-.4140	-.2468	.1584	.0057	-.0594	-.1593	.1230	.2403	.6509	-.1080	-.2575	-.4799
225.000		.4073	.5292	-.3923	-.2350	.1900	.0083	-.0162	-.1548	.1375	.3203				
270.000		.3537	.5997	-.3003	-.3105	-.2869	-.4410	-.1610	-.0893	.0341	.2862	.7418	.1993	.3035	-.4133
315.000		.0969	.1745	-.5334	-.5429	-.4162	-.1333	-.0823	-.0748	-.0343	.3391				

DATE 21 OCT 75 IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (RETS19)

ALPHAL(1) = -4.472 BETAL (2) = .144

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1060	-.3294	.1513	-.1771	.0589	-.0095
45.000	-.0494	-.2137			.0076	-.0360
90.000	-.1637	-.1462	.0854	-.0331	.0912	.0893
135.000	-.0305	-.1860			.3118	.3100
180.000	-.0713	-.1921	.2268	.1238	.3631	.2753
225.000	-.2475	-.2963			.0751	.0000
270.000	-.2682	-.2335	-.0321	-.1859	-.1452	-.1262
315.000	-.2335	-.2890			-.0848	-.0565

ALPHAL(1) = -4.412 BETAL (3) = 4.296

SECTION (1)SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3409	.0597	.1436	-.5104	-.4328	-.2994	-.0689	-.0766	-.0660	-.0481	.2168	.3886	-.2363	-.2311	-.3785
45.000		.0532	.1624	-.4932	-.3961	-.2387	-.0434	-.0799	-.1090	-.0594	.2486		-.3604	-.3685	
90.000		.0905	.1838	-.4906	-.3932	-.2464	-.1875	-.1672	-.1962	-.0410	.2245				
135.000		.1903	.2421	-.4666	-.3558	-.0750	-.1949	-.2050	-.2667	-.0298	.2377	.6468	-.1436	-.3487	-.4511
180.000	1.3409	.3535	.3878	-.4315	-.2547	.0594	-.1125	-.1255	-.2179	.0409	.0959				
225.000		.4533	.5313	-.4024	-.2387	.1651	-.0627	-.0705	-.1754	.0905	.2232	.5885	.2344	.3008	-.3199
270.000		.3257	.6091	-.2920	-.3096	-.3029	-.4813	-.1962	-.0963	.0284	.2425				
315.000		.1890	.1572	-.5505	-.5499	-.4315	-.1503	-.0873	-.0674	-.0340	.3151				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0772	-.2913	.0609	-.0164	.3731	.3433
45.000	.0507	-.2858			.1405	.0635
90.000	-.1300	-.0844	.0962	.0117	.0528	-.0145
135.000	-.0965	-.1304			.2243	.2092
180.000	-.0621	-.2198	.3087	-.0507	.1706	.0774
225.000	-.2702	-.3027			.0011	.0000
270.000	-.2715	-.2402	.0088	-.1225	-.0892	-.1310
315.000	-.2440	-.3059			.0189	.0587

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS19)

ALPHAL(2) =   -.084   BETAL (1) = -4.064

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4057	.2463	.3201	-.4539	-.3504	-.2286	-.0750	-.0223	-.0598	-.0537	.3056	.3622	-.0844	.1133	-.2643
45.000		.2664	.3441	-.4449	-.3111	-.1754	-.0679	.0129	-.0621	-.0762	.3387		-.2043	-.1901	
90.000		.2894	.3667	-.4348	-.2901	-.1814	-.0149	-.0042	-.0663	-.0820	.2943				
135.000		.2647	.3450	-.4272	-.3121	-.1802	.0682	.0106	-.0720	-.0865	.4310				
180.000	1.4057	.2340	.3233	-.4383	-.3497	-.1400	.1044	-.0336	-.0617	.0016	.5056	.7288	.0255	-.1035	-.3554
225.000		.2709	.3693	-.4549	-.3838	-.2276	.0814	.0171	-.0453	.1605	.5577				
270.000		.2926	.6487	-.2860	-.4877	-.3720	-.3600	-.1341	-.0521	.0727	.2351	.9748	.5146	.4365	-.2844
315.000		.2754	.3725	-.4555	-.3660	-.2980	-.1267	-.1160	-.0431	-.0106	.4018				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1074	-.3278	-.0739	-.1534	.0752	.1133
45.000	.0465	-.2962			.2562	.2510
90.000	-.0766	-.1882	.0626	.0551	.2067	.1848
135.000	.1232	-.2064			.2879	.2554
180.000	.0583	-.1537	.2084	.1686	.3441	.2718
225.000	-.2118	-.3479			.1815	.0000
270.000	-.2505	-.2377	-.0031	-.1641	-.1298	-.1066
315.000	-.2345	-.2636			-.1450	-.1111

ALPHAL(2) =   -.083   BETAL (2) =   .061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3828	.1566	.2873	-.4582	-.3623	-.2315	-.0611	-.0350	-.0379	-.0398	.2619	.4052	-.1784	-.0674	-.2837
45.000		.1689	.2913	-.4556	-.3412	-.2009	-.0143	-.0053	-.0524	-.0646	.2882		-.2697	-.2662	
90.000		.1847	.3030	-.4449	-.3297	-.2085	-.0440	-.0282	-.0885	-.0848	.2654				
135.000		.1734	.3072	-.4375	-.3310	-.1499	.0012	-.0382	-.1314	.0315	.3570	.7393	-.0855	-.2688	-.4002
180.000	1.3828	.1530	.3259	-.4372	-.3390	-.0546	.0480	-.0234	-.1199	.1366	.3817				
225.000		.2064	.3948	-.4461	-.3513	-.1438	.0128	-.0066	-.1157	.1607	.3936	.7947	.2029	.3023	-.3986
270.000		.2064	.6700	-.2727	-.4753	-.3698	-.3383	-.1718	-.0739	.0572	.2368				
315.000		.1996	.3647	-.4624	-.3854	-.3158	-.1014	-.0950	-.0633	-.0138	.3677				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0878	-.2823	.0043	-.1184	.1471	.1632
45.000	.0142	-.2280			.1661	.1426
90.000	-.0574	-.1584	.0709	.0508	.1949	.1607
135.000	.0608	-.1757			.2527	.2314
180.000	-.0372	-.1383	.1894	.116	.2711	.1986

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS19)

ALPHAL(2) =   -.088   BETAL (2) =   .061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2175	-.2835			.0831	.0000
270.000	-.2516	-.2156	.0030	-.1491	-.1088	-.0998
315.000	-.2226	-.2596			-.0974	-.0603

ALPHAL(2) =   -.072   BETAL (3) =   4.188

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3519	.1378	.2483	-.4695	-.3699	-.2125	-.0742	-.0519	-.0371	-.0407	.2502	.3703	-.1113	-.1561	-.2935
45.000		.0938	.2197	-.4746	-.3689	-.2160	-.0086	-.0335	-.0552	-.0580	.2647		-.3784	-.4160	
90.000		.0921	.2242	-.4646	-.3616	-.2093	-.0219	-.0455	-.1055	-.0030	.2762				
135.000		.0934	.2410	-.4557	-.3619	-.1009	-.0619	-.0700	-.1616	.0613	.3100				
180.000	1.3519	.1488	.2948	-.4484	-.3386	.0261	-.0697	-.0513	-.1635	.0995	.2740	.6130	-.2500	-.3631	-.4027
225.000		.2016	.4049	-.4445	-.3404	-.0588	-.0606	.0272	-.1342	.1522	.2814				
270.000		.3429	.6759	-.2566	-.4670	-.3615	-.3521	-.1592	-.0809	.0532	.2457	.6655	.1891	.3262	-.4033
315.000		.2049	.3586	-.4656	-.3886	-.2913	-.1020	-.0755	-.0439	-.0079	.3722				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0679	-.1889	.0745	.0399	.1826	.1410
45.000	.0254	-.2122			.2808	.2130
90.000	-.0277	-.1152	.0987	.0386	.1933	.0990
135.000	-.0237	-.0776			.1610	.1112
180.000	-.0240	-.1305	.2931	-.0185	.2324	.1436
225.000	-.1994	-.3455			.1035	.0000
270.000	-.2428	-.2077	.1164	-.1002	-.0369	-.0783
315.000	-.2189	-.2623			.0331	.0694

ALPHAL(3) =   4.245   BETAL (1) =   -3.957

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3934	.4060	.4199	-.4360	-.2834	-.2425	-.0418	.0022	-.0056	-.0020	.2855	.4132	-.1059	-.1468	-.2688
45.000		.3593	.3895	-.4379	-.2805	-.1215	-.0767	.0258	-.0049	-.0264	.3660		-.2227	-.2107	
90.000		.2828	.3382	-.4506	-.3108	-.2518	-.0560	.0210	-.0447	-.0795	.3486				
135.000		.2024	.2569	-.4584	-.3674	-.2269	-.0026	.0239	-.0319	.0119	.3876				
180.000	1.3934	.1421	.2047	-.4680	-.4031	-.1464	-.0088	.0119	-.0348	.1478	.4468	.6523	-.0959	-.1179	-.2568
225.000		.1671	.1953	-.5229	-.3447	-.2530	-.0521	.0151	-.0148	.1825	.4481				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS19)

ALPHAL(3) =   4.245   BETAL (1) =   -3.957

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4034	.5869	-.3188	-.3967	-.2495	-.0664	-.0217	-.0277	.0917	.1304	.6397	.2724	.1591	-.3041
315.000		.4319	.5039	-.4108	-.2313	-.2133	-.0389	-.0221	-.0129	.0296	.3473				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0291	-.2303	.0213	-.0521	.2222	.2505
45.000	.0721	-.2590			.3556	.3246
90.000	-.0044	-.0958	.1083	.0588	.1804	.1173
135.000	.1636	-.1871			.2169	.1569
180.000	.0655	-.1536	.2228	.1213	.2560	.1669
225.000	-.1788	-.3519			.2567	.0000
270.000	-.2105	-.1884	.1336	-.1149	-.0473	-.0586
315.000	-.1811	-.2219			-.0412	-.0209

ALPHAL(3) =   4.211   BETAL (2) =   .124

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3712	.2759	.3844	-.4385	-.2892	-.2388	-.0654	-.0386	-.0179	-.0213	.2848	.4817	-.0910	-.1370	-.3302
45.000		.2238	.3161	-.4550	-.3208	-.1759	-.0861	-.0170	-.0273	-.0596	.3308		-.2910	-.3072	
90.000		.1703	.2662	-.4608	-.3469	-.2662	-.0173	-.0060	-.0606	-.0741	.3041				
135.000		.1195	.2270	-.4547	-.3651	-.1973	-.0079	.0234	-.0734	.0585	.3359	.5987	-.1766	-.2310	-.3198
180.000	1.3712	.0703	.2150	-.4675	-.3916	-.1868	-.0202	.0328	-.0709	.1325	.3675				
225.000		.1026	.2102	-.5163	-.3195	-.3176	-.0590	.0008	-.0696	.1593	.3594	.5458	.1803	.1313	-.4025
270.000		.1930	.6072	-.2943	-.3964	-.3032	-.0851	-.0506	-.0535	.0959	.2413				
315.000		.3063	.5042	-.4085	-.2458	-.2325	-.0380	-.0544	-.0287	.0244	.3724				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0161	-.2067	.1445	.0136	.2709	.2755
45.000	.0500	-.1668			.2761	.2402
90.000	-.0369	-.0873	.1348	.0488	.1219	.0456
135.000	.1381	-.1687			.2583	.1983
180.000	-.0193	-.1007	.2202	.0844	.2034	.1292
225.000	-.1773	-.3219			.2402	.0000
270.000	-.2223	-.1933	.1103	-.0837	-.0119	-.0400
315.000	-.1843	-.2290			.0543	.0931

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS19)

ALPHAL(3) =   4.159   BETAL (3) =   4.266

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3393	.2690	.3483	-.4509	-.3025	-.1173	-.0986	-.0763	-.0302	-.0387	.2886	.5772	-.1041	-.1504	-.3558
45.000		.1515	.2308	-.4793	-.3653	-.2212	-.1167	-.0634	-.0570	-.0840	.2783		-.3564	-.3956	
90.000		.0796	.1945	-.4832	-.3761	-.2738	-.0105	-.0276	-.0786	-.0123	.2513				
135.000		.0407	.1893	-.4625	-.3764	-.1470	-.0150	.0102	-.0981	.0830	.2905	.4949	-.2593	-.3367	-.3176
180.000	1.3393	.0142	.1939	-.4733	-.4054	-.1310	-.0524	-.0085	-.1148	.1222	.2700				
225.000		.0566	.2204	-.5131	-.2942	-.3309	-.0692	-.0321	-.0904	.1621	.2610				
270.000		.3228	.6339	-.2725	-.3560	-.3165	-.0576	-.0573	-.0579	.1004	.2388	.4612	.0871	.1366	-.3671
315.000		.3681	.5086	-.4080	-.2400	-.1761	-.0476	-.0570	-.0210	.0297	.3696				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0007	-.1609	.2330	.1136	.3916	.3696
45.000	.1081	-.1577			.3402	.2350
90.000	-.0383	-.0468	.1754	.0531	.1256	.0392
135.000	.0347	-.0814			.1411	.0700
180.000	.0219	-.0858	.2347	-.0217	.1599	.0823
225.000	-.1699	-.3422			.1097	.0000
270.000	-.2271	-.1750	.1560	-.0508	.0149	-.0657
315.000	-.1849	-.2076			.1754	.1916

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS20) (17 OCT 75)

REFERENCE DATA

SREF =	2650.0000 SQ.FT.	XMRP =	976.0000 IN. XT
LREF =	1297.0000 INCHES	YMRP =	.0000 IN. YT
BREF =	1297.0000 INCHES	ZMRP =	400.0000 IN. ZT
SCALE =	.0300 SCALE		

PARAMETRIC DATA

MACH =	1.400	RN/FT =	2.250
ELV-IB =	.000	ELV-OB =	.000
RUDDER =	.000	SPDBRK =	.000

ALPHAL(1) = -.150 BETAL (1) = -6.117

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4912	.2584	.3545	-.3135	-.2398	-.2017	-.1078	-.0346	-.0394	-.0603	.2417	.3617	-.0503	.1684	-.1852
45.000		.3208	.3730	-.3075	-.2026	-.0979	-.1266	-.0127	-.0202	-.0622	.2950		-.0298	.0121	
90.000		.3482	.3922	-.2895	-.1864	-.1038	-.0918	-.0180	-.0303	-.0400	.2219				
135.000		.3189	.3787	-.2914	-.2035	-.1069	.0933	.0543	-.0296	-.0240	.4297				
180.000	1.4912	.2486	.3551	-.3029	-.2429	-.2082	.1523	.0734	.0064	-.0603	.5256	.6875	.1798	.1226	-.2629
225.000		.1780	.4225	-.3221	-.2756	-.2582	.0801	.0467	-.0227	-.0861	.6033				
270.000		.1670	.7112	-.1541	-.4066	-.2917	-.2473	-.2508	-.0334	-.0848	.2539	1.0427	.6215	.4986	-.5896
315.000		.1777	.4301	-.3175	-.2436	-.2523	-.1134	-.1088	-.0252	-.0338	.3231				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0842	-.3301	-.1611	-.2707	.0186	.1186
45.000	.0727	-.3111			.2345	.3198
90.000	-.0498	-.2318	.1275	-.0976	.1970	.2587
135.000	.2508	-.3323			.1630	.2441
180.000	.1982	-.2551	.0520	.0136	.0947	.1390
225.000	-.1074	-.3087			.2127	.0000
270.000	-.2455	-.2210	-.0538	-.1649	-.1216	-.1190
315.000	-.1989	-.2698			-.1335	-.0760

ALPHAL(1) = -.137 BETAL (2) = -4.067

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4774	.2146	.3326	-.3212	-.2443	-.2123	-.0963	-.0163	-.0431	-.0526	.2597	.3437	-.0262	.2012	-.1918
45.000		.2676	.3318	-.3124	-.2166	-.1094	-.1255	.0075	-.0261	-.0582	.2916		-.0433	-.0019	
90.000		.2849	.3299	-.3004	-.2032	-.1265	-.0862	-.0283	-.0362	-.0488	.2274				
135.000		.2657	.3325	-.2984	-.2185	-.1153	.0854	.0236	-.0435	-.0570	.3997				
180.000	1.4774	.2111	.3372	-.3068	-.2458	-.1992	.1260	.0393	-.0144	-.0736	.4975	.6892	.1750	.0992	-.2910
225.000		.1530	.4142	-.3173	-.2807	-.2474	.0907	-.0041	-.0263	-.0671	.5726				
270.000		.1300	.7256	-.1448	-.4128	-.3055	-.2962	-.2585	-.0695	-.0793	.2951	1.0026	.6002	.5026	-.5737
315.000		.1480	.4249	-.3192	-.2533	-.2691	-.1054	-.1074	-.0470	-.0361	.3149				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (RETS20)

ALPHAL(1) = -.137 BETAL (2) = -4.067

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0951	-.3148	-.1138	-.1986	.0643	.1400
45.000	.0704	-.2940			.2333	.3045
90.000	-.0506	-.2250	.0675	-.0898	.1769	.2270
135.000	.2303	-.3257			.1535	.2296
180.000	.1939	-.2464	.0416	.0092	.0955	.1480
225.000	-.1112	-.2934			.1772	.0000
270.000	-.2374	-.2185	-.0747	-.1611	-.1166	-.1017
315.000	-.2104	-.2492			-.1119	-.0646

ALPHAL(1) = -.124 BETAL (3) = -2.013

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4630	.1907	.3188	-.3232	-.2537	-.2201	-.0954	-.0150	-.0399	-.0425	.2459	.3442	-.0566	.1223	-.2099
45.000		.2286	.2935	-.3260	-.2338	-.1281	-.1329	.0158	-.0317	-.0513	.2688		-.0778	-.0411	
90.000		.2424	.2775	-.3188	-.2217	-.1440	-.0459	-.0399	-.0393	-.0550	.2230	.3571			
135.000		.2289	.2891	-.3087	-.2329	-.1288	.0530	-.0053	-.0503	-.0713	.4529	.7232	.1071	.0117	-.3319
180.000	1.4630	.1885	.3210	-.3125	-.2519	-.2052	.0984	-.0094	-.0497	-.1083	.4529				
225.000		.1380	.4125	-.3196	-.2882	-.2574	.0782	-.0453	-.0369	-.0989	.4920				
270.000		.1118	.7245	-.1356	-.4216	-.3146	-.2986	-.2088	-.0920	-.0782	.2703	.9337	.4972	.5026	-.5393
315.000		.1345	.4191	-.3193	-.2665	-.2945	-.1051	-.0970	-.0582	-.0434	.3072				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0929	-.2923	-.0619	-.1432	.0778	.1216
45.000	.0670	-.2724			.2314	.2850
90.000	-.0531	-.2257	.0529	-.0792	.1699	.2118
135.000	.2174	-.3256			.1494	.2211
180.000	.1577	-.2376	.0353	.0135	.1024	.1430
225.000	-.1555	-.2973			.1068	.0000
270.000	-.2369	-.2139	-.0783	-.1593	-.1211	-.1034
315.000	-.2127	-.2500			-.1013	-.0692

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS20)

ALPHAL(1) =   -.128   BETAL (4) =   .070

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4427	.1603	.2952	-.3316	-.2662	-.2254	-.0959	-.0227	-.0358	-.0373	.2268	.3519	-.1062	.0516	-.2304
45.000		.1886	.2587	-.3376	-.2509	-.1417	-.1224	.0098	-.0270	-.0545	.2572				
90.000		.1968	.2300	-.3338	-.2397	-.1598	-.0478	-.0336	-.0478	-.0717	.2274		-.1226	-.0950	
135.000		.1927	.2578	-.3209	-.2444	-.1324	.0201	-.0321	-.0523	-.1033	.3223				
180.000	1.4427	.1678	.3180	-.3138	-.2516	-.2027	.0776	-.0468	-.0664	-.1287	.3676	.7775	-.0532	-.1525	-.3528
225.000		.1265	.4262	-.3138	-.2708	-.2503	.0723	-.0355	-.0774	-.0795	.4033				
270.000		.1016	.7384	-.1275	-.4213	-.3277	-.2550	-.1283	-.0996	-.0276	.2334	.7295	.2273	.2665	-.4036
315.000		.1126	.4129	-.3249	-.2773	-.2836	-.1035	-.0783	-.0589	-.0319	.2992				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0613	-.2787	-.0243	-.1354	.0882	.1122
45.000	.0472	-.2438			.1934	.2057
90.000	-.0408	-.2208	.0557	-.0624	.1723	.2019
135.000	.1698	-.3036			.1506	.2048
180.000	.1001	-.2102	.0378	.0302	.1213	.1241
225.000	-.2083	-.2786			.0401	.0000
270.000	-.2404	-.2101	-.0554	-.1531	-.1193	-.1120
315.000	-.2114	-.2637			-.0932	-.0590

ALPHAL(1) =   -.127   BETAL (5) =   2.139

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4247	.1324	.2764	-.3395	-.2736	-.2376	-.0855	-.0280	-.0396	-.0353	.2190	.3823	-.1166	-.0643	-.2529
45.000		.1447	.2235	-.3502	-.2665	-.1591	-.0802	.0048	-.0387	-.0569	.2378		-.1974	-.1955	
90.000		.1532	.1910	-.3423	-.2559	-.1665	-.0528	-.0245	-.0575	-.0857	.2312				
135.000		.1520	.2455	-.3289	-.2575	-.1498	-.0163	-.0579	-.0785	-.1127	.2732				
180.000	1.4247	.1400	.3151	-.3121	-.2562	-.2032	.0409	-.0799	-.0976	-.0237	.2672	.5864	-.0747	-.1866	-.3541
225.000		.1154	.4320	-.3096	-.2646	-.2274	.0529	-.0553	-.0904	.1604	.3289				
270.000		.0886	.7464	-.1190	-.4177	-.3143	-.2583	-.1013	-.0870	.0499	.2184	.6274	.1613	.1824	-.3828
315.000		.1025	.4078	-.325:	-.2773	-.2957	-.1006	-.0739	-.0607	-.0244	.2855				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0450	-.2355	-.0524	-.1097	.1101	.1054
45.000	.0363	-.2634			.1205	.1170
90.000	-.0024	-.2084	.0456	-.0621	.1863	.1920
135.000	.0464	-.2165			.1069	.1055
180.000	-.0170	-.1550	.0286	.0248	.1032	.0613

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS20)

ALPHAL(1) =   -.127   BETAL (5) =   2.139

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.9102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2084	-.2731			.0528	.0000
270.000	-.2498	-.2143	-.0291	-.1465	-.1065	-.0993
315.000	-.2199	-.2715			-.0615	-.0226

ALPHAL(1) =   -.119   BETAL (6) =   4.208

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4034	.1006	.2558	-.3501	-.2875	-.2453	-.0855	-.0456	-.0375	-.0373	.2168	.4097	-.0594	-.0916	-.2845
45.000		.1038	.1819	-.3693	-.2831	-.1743	-.0355	-.0117	-.0438	-.0639	.2165		-.2816	-.3114	
90.000		.1050	.1554	-.3542	-.2704	-.1718	-.0500	-.0299	-.0592	-.1008	.2290				
135.000		.1044	.2012	-.3402	-.2742	-.1644	-.0440	-.0802	-.0927	-.0601	.2678	.5931	-.1623	-.2413	-.3871
180.000	1.4034	.1056	.2980	-.3191	-.2679	-.1185	.0016	-.0969	-.1243	.0657	.2315				
225.000		.0902	.4366	-.3073	-.2671	-.1172	.0390	-.0721	-.1055	.1479	.2825	.6619	.2452	.3862	-.4225
270.000		.0700	.7451	-.1175	-.4051	-.3195	-.2859	-.0869	-.0855	.0537	.2449				
315.000		.0851	.4012	-.3275	-.2829	-.2796	-.0921	-.0705	-.0542	-.0142	.2998				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0289	-.2187	.0687	-.0367	.1241	.1300
45.000	.0431	-.2426			.2131	.1722
90.000	.0052	-.1919	.0731	-.0282	.1549	.1124
135.000	.0115	-.1829			.0926	.0812
180.000	.0112	-.1786	.0801	.0086	.1341	.0847
225.000	-.2078	-.2616			.0281	.0000
270.000	-.2485	-.2075	-.0565	-.1623	-.1255	-.1229
315.000	-.2084	-.2648			.0095	.0709

ALPHAL(1) =   -.103   BETAL (7) =   6.266

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3814	.0757	.2392	-.3508	-.2985	-.2531	-.1025	-.0597	-.0492	-.0417	.2244	.4354	-.0239	-.1058	-.3276
45.000		.0653	.1552	-.3794	-.2950	-.1916	-.0206	-.0332	-.0543	-.0705	.2228		-.2996	-.3298	
90.000		.0656	.1445	-.3634	-.2817	-.1808	-.0354	-.0398	-.0700	-.1068	.2438				
135.000		.0672	.1722	-.3500	-.2870	-.1668	-.0830	-.0876	-.1143	-.0079	.2503	.6222	-.1361	-.2917	-.3793
180.000	1.3814	.0823	.2856	-.3233	-.2736	-.0619	-.0471	-.1166	-.1444	.0694	.1774				
225.000		.0801	.4349	-.3044	-.2683	-.0637	-.0106	-.0867	-.1272	.1154	.2657				

DATE 21 OCT 75   IA61A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS20)

ALPHAL(1) =   -.103   BETAL (7) =   6.266

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.0619	.7216	-.1107	-.3990	-.3127	-.2658	-.0782	-.0915	.0444	.2744	.6603	.3519	.4766	-.4234
315.000		.0751	.3930	-.3310	-.2792	-.2526	-.0811	-.0757	-.0496	-.0122	.3172				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0126	-.2135	.1484	-.0180	.2515	.2587
45.000	.0369	-.2141			.1817	.1305
90.000	-.0091	-.1526	.1170	.0140	.1381	.0957
135.000	-.0147	-.1554			.1054	.0857
180.000	-.0337	-.1461	.1217	-.0623	.0335	-.0225
225.000	-.2352	-.2585			.0150	.0000
270.000	-.2551	-.2107	-.0183	-.1443	-.1135	-.1342
315.000	-.2085	-.2706			.0847	.1633

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS21)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   1.250   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAL(1) =   -.151   BETAL (1) =   -6.106

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.4154	.3005	.3270	-.4536	-.3457	-.2370	-.0932	-.0195	-.0707	-.0553	.2778	.3248	-.1320	.1155	-.2815
45.000		.3234	.3644	-.4391	-.2946	-.1687	-.1022	.0198	-.0681	-.0890	.3371				
90.000		.3496	.4000	-.4256	-.2660	-.1608	-.0047	-.0079	-.0597	-.0765	.2961		-.2116	-.1983	
135.000		.3312	.3693	-.4191	-.2927	-.1754	.1041	.0381	-.0332	-.0746	.4536				
180.000	1.4154	.3018	.3315	-.4337	-.3435	-.2212	.1375	.0249	-.0233	.0632	.5264	.7220	.0382	-.0964	-.3452
225.000		.3383	.3741	-.4490	-.3702	-.2224	.1095	.0326	-.0175	.1887	.5859				
270.000		.4248	.6356	-.2965	-.5240	-.3463	-.3770	-.1366	-.0528	.0814	.2147	1.0086	.5344	.4194	-.2883
315.000		.3160	.3741	-.4509	-.3575	-.3062	-.1292	-.0967	-.0243	-.0057	.3516				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1168	-.3527	-.1173	-.1967	.0531	.1293
45.000	.0392	-.3531			.2542	.2726
90.000	-.0877	-.2403	.0008	.0266	.2126	.2158
135.000	.1438	-.2397			.2600	.2875
180.000	.0750	-.1403	.1044	.1195	.2255	.1733
225.000	-.2308	-.3321			.0496	.0000
270.000	-.2769	-.2582	-.0589	-.1980	-.1557	-.1388
315.000	-.2432	-.2847			-.1502	-.1121

ALPHAL(1) =   -.129   BETAL (2) =   -4.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.4052	.2369	.3135	-.4565	-.3555	-.2351	-.0774	-.0232	-.0629	-.0507	.3020	.3513	-.0995	.1350	-.2705
45.000		.2637	.3386	-.4468	-.3170	-.1832	-.0651	.0087	-.0632	-.0818	.3331				
90.000		.2815	.3631	-.4358	-.2960	-.1870	-.0267	-.0116	-.0722	-.0857	.2879		-.2059	-.1893	
135.000		.2660	.3473	-.4307	-.3154	-.1743	.0723	.0061	-.0754	-.0905	.4293				
180.000	1.4052	.2404	.3253	-.4406	-.3504	-.1450	.1000	-.0387	-.0632	-.0135	.5053	.7286	.0215	-.1066	-.3574
225.000		.2689	.3725	-.4558	-.3774	-.2106	.0752	.0139	-.0475	.1552	.5563				
270.000		.2731	.6424	-.2912	-.4894	-.3761	-.3805	-.1299	-.0497	.0695	.2584	.9724	.5126	.4397	-.2792
315.000		.2679	.3693	-.4597	-.3717	-.3183	-.1299	-.1077	-.0440	-.0093	.3429				

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS21)

ALPHAL(1) =   -.129   BETAL (2) = -4.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.1218	-.3512	-.0884	-.1736	.0670	.1060
45.000	.0457	-.3330			.2379	.2669
90.000	-.0804	-.2314	.0119	.0203	.1863	.1840
135.000	.1215	-.2384			.2443	.2680
180.000	.0632	-.1537	.0961	.1174	.2314	.1755
225.000	-.2263	-.3129			.0086	.0000
270.000	-.2712	-.2466	-.0568	-.1852	-.1523	-.1340
315.000	-.2531	-.2756			-.1448	-.1102

ALPHAL(1) =   -.116   BETAL (3) = -2.002

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.3957	.1849	.3022	-.4564	-.3543	-.2385	-.0749	-.0182	-.0520	-.0427	.2797	.3799	.1224	.0359	-.2830
45.000		.2165	.3109	-.4513	-.3245	-.1908	-.0372	.0034	-.0597	-.0686	.3098		-.2239	-.2097	
90.000		.2364	.3303	-.4393	-.3092	-.1956	-.0401	-.0166	-.0803	-.0814	.2746	.3954			
135.000		.2203	.3241	-.4283	-.3191	-.1670	.0384	-.0117	-.0910	-.0898	.4626	.7356	-.0262	-.1599	-.3777
180.000	1.3957	.1865	.3196	-.4334	-.3387	-.0793	.0757	-.0607	-.0882	.1331	.4812				
225.000		.2339	.3803	-.4467	-.3666	-.1686	.0567	-.0101	-.0955	.2034	.2576	.8969	.4258	.4158	-.2736
270.000		.2313	.6568	-.2765	-.4756	-.3583	-.3538	-.1315	-.0648	.0737	.3279				
315.000		.2274	.3667	-.4550	-.3761	-.3329	-.1141	-.1009	-.0549	-.0116					

PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.1127	-.3284	-.0580	-.1148	.0925	.1402
45.000	.0058	-.3077			.2234	.2611
90.000	-.0737	-.2233	.0245	.0268	.1783	.1709
135.000	.0934	-.2246			.2402	.2655
180.000	.0352	-.1616	.1093	.1035	.2212	.1652
225.000	-.2434	-.2965			-.0396	.0000
270.000	-.2752	-.2389	-.0522	-.1802	-.1505	-.1355
315.000	-.2536	-.2889			-.1283	-.0829

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS21)

ALPHAL(1) =   -.115   BETAL (4) =   .064

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3825	.1519	.2828	-.4620	-.3670	-.2383	-.0700	-.0359	-.0417	-.0427	.2586	.3998	-.1774	-.0703	-.2954
45.000		.1680	.2833	-.4594	-.3434	-.2011	-.0152	-.0098	-.0549	-.0703	.2891		-.2721	-.2682	
90.000		.1810	.3030	-.4497	-.3336	-.2126	-.0488	-.0285	-.0923	-.0896	.2634				
135.000		.1687	.3046	-.4405	-.3345	-.1546	.0028	-.0404	-.1348	.0193	.3552				
180.000	1.3825	.1490	.3195	-.4402	-.3409	-.0589	.0405	-.0262	-.1210	.1384	.3902	.7474	-.0985	-.2737	-.4076
225.000		.1978	.3945	-.4491	-.3589	-.1642	.0054	-.0066	-.1201	.1582	.3960				
270.000		.2033	.6595	-.2760	-.4725	-.3736	-.3440	-.1709	-.0790	.0555	.2355	.7985	.2110	.3154	-.4066
315.000		.1958	.3593	-.4657	-.3888	-.3369	-.1126	-.0871	-.0671	-.0164	.3106				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0994	-.3034	-.0011	-.1296	.1583	.1673
45.000	.0024	-.2578			.1495	.1395
90.000	-.0639	-.2027	.0505	.0324	.1750	.1579
135.000	.0626	-.2123			.2292	.2370
180.000	-.0257	-.1524	.1318	.0750	.1812	.1281
225.000	-.2266	-.2661			-.0160	.0000
270.000	-.2661	-.2257	-.0566	-.1715	-.1337	-.1280
315.000	-.2362	-.2703			-.1086	-.0622

ALPHAL(1) =   -.082   BETAL (5) =   2.132

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3684	.1295	.2711	-.4611	-.3639	-.2314	-.0638	-.0448	-.0380	-.0398	.2395	.4092	-.1900	-.1506	-.3021
45.000		.1279	.2537	-.4624	-.3538	-.2095	-.0106	-.0200	-.0525	-.0664	.2613		-.3369	-.3612	
90.000		.1369	.2598	-.4527	-.3458	-.2120	-.0296	-.0383	-.0960	-.0567	.2552				
135.000		.1321	.2727	-.4440	-.3468	-.1325	-.0309	-.0576	-.1490	.0554	.3033				
180.000	1.3684	.1360	.3076	-.4408	-.3458	.0124	-.0087	-.0409	-.1346	.1117	.2873	.5896	-.1745	-.3043	-.4028
225.000		.1885	.3979	-.4437	-.3541	-.1163	-.0316	.0071	-.1240	.1559	.3244				
270.000		.1947	.6727	-.2632	-.4583	-.3731	-.3375	-.1594	-.0763	.0486	.2171	.6791	.1464	.2101	-.4012
315.000		.1834	.3659	-.4590	-.3836	-.3117	-.1027	-.0876	-.0571	-.0148	.2968				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0860	-.2325	-.0245	-.0400	.1656	.1541
45.000	.0070	-.2539			.1751	.1557
90.000	-.0440	-.1657	.0651	.0303	.2438	.1941
135.000	-.0242	-.1021			.1480	.1090
180.000	-.1358	-.0910	.1283	.0274	.1419	.0811

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS21)

ALPHAL(1) =   -.082   BETAL (5) =   2.132

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2402	-.2778			.0764	.0000
270.000	-.2567	-.2272	.0039	-.1453	-.1054	-.1043
315.000	-.2316	-.2864			-.0815	-.0321

ALPHAL(1) =   -.073   BETAL (6) =   4.201

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3505	.1267	.2489	-.4734	-.3727	-.2234	-.0798	-.0575	-.0420	-.0478	.2457	.3744	-.1118	-.1644	-.2943
45.000		.0833	.2149	-.4799	-.3702	-.2234	-.0133	-.0414	-.0617	-.0632	.2573		-.3757	-.4155	
90.000		.0866	.2204	-.4689	-.3648	-.2103	-.0256	-.0491	-.1082	-.0099	.2736				
135.000		.0807	.2340	-.4584	-.3654	-.1062	-.0669	-.0733	-.1649	.0571	.3057				
180.000	1.3505	.1276	.2935	-.4511	-.3542	.0183	-.0743	-.0565	-.1700	.0969	.2727	.6038	-.2517	-.3635	-.4042
225.000		.1965	.3973	-.4476	-.3507	-.0868	-.0659	.0151	-.1399	.1482	.2765				
270.000		.3032	.6766	-.2597	-.4667	-.3590	-.3321	-.1572	-.0840	.0513	.2499	.6507	.1861	.3266	-.4229
315.000		.1994	.3581	-.4654	-.3883	-.2972	-.1088	-.0762	-.0484	-.0109	.3079				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0740	-.2118	.0654	.0219	.1785	.1369
45.000	.0210	-.2324			.2629	.2026
90.000	-.0330	-.1463	.0867	.0338	.1826	.1037
135.000	-.0274	-.0957			.1289	.0865
180.000	-.0455	-.1278	.2252	-.0612	.1411	.0656
225.000	-.2127	-.3281			.0457	.0000
270.000	-.2550	-.2226	.0696	-.1224	-.0709	-.1109
315.000	-.2347	-.2830			.0242	.0685

ALPHAL(1) =   -.080   BETAL (7) =   6.270

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3347	.1279	.2302	-.4745	-.3749	-.1932	-.0854	-.0603	-.0455	-.0018	.2567	.4268	-.0804	-.2058	-.3608
45.000		.0521	.1825	-.4842	-.3819	-.2163	-.0227	-.0497	-.0632	-.0057	.2733		-.4087	-.4328	
90.000		.0489	.1886	-.4758	-.3746	-.1913	-.0156	-.0568	-.1160	.0565	.2788				
135.000		.0602	.2044	-.4642	-.3774	-.0842	-.0918	-.0732	-.1674	.1000	.2730				
180.000	1.3347	.1354	.2764	-.4524	-.3403	.0000	-.1285	-.0371	-.1953	.1436	.2153	.6125	-.1699	-.3679	-.4193
225.000		.2990	.4006	-.4435	-.3403	-.0473	-.0915	-.0137	-.1793	.1619	.2730				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS21)

ALPHAL(1) =   -.080   BETAL (7) =   6.270

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.4280	.6820	-.2456	-.4352	-.3355	-.2961	-.1407	-.0886	.0850	.2929	.6978	.2801	.4033	-.4745
315.000		.2393	.3571	-.4613	-.3749	-.2685	-.1140	-.0684	-.0402	.0222	.3286				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0540	-.2116	.1414	.0519	.2703	.2399
45.000	.0009	-.2014			.1919	.1111
90.000	-.0682	-.1235	.1318	.0197	.1468	.0801
135.000	-.0500	-.1127			.1040	.0451
180.000	-.0783	-.1569	.1630	-.0957	.0199	-.0472
225.000	-.2533	-.2841			.0038	.0000
270.000	-.2708	-.2259	-.0209	-.1508	-.1366	-.1673
315.000	-.2237	-.2739			.0669	.1332

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS22)   (17 OCT 75)

REFERENCE DATA		PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 976.0000 IN. XT   MACH = 1.100 RN/FT = 2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB = .000 ELV-OB = .000
BREF = 1297.0000 INCHES   ZMRP = 400.0000 IN. ZT   RUDDER = .000 SPDBRK = .000
SCALE =   .0300 SCALE

ALPHAL(1) =   -.158   BETAL (1) = -6.061

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3346	.3974	.2550	-.6557	-.4923	-.1576	-.0147	-.0499	-.0578	.0631	.3095	.3670	-.2462	-.0883	-.4167
45.000		.4232	.2989	-.6457	-.4328	-.2134	.0199	-.0239	-.0787	.0471	.3316				
90.000		.4396	.3363	-.6316	-.3949	-.1637	.0326	-.0236	-.0817	.0761	.3265		-.4306	-.4280	
135.000		.4283	.3099	-.6248	-.4206	.0855	.0877	.0059	-.0551	.1793	.4141				
180.000	1.3346	.4087	.2763	-.6336	-.4639	.1555	.0736	-.0188	-.0527	.2274	.4645	.6832	-.0924	-.2966	-.4490
225.000		.4242	.3126	-.6451	-.4967	-.0704	.0274	-.0564	-.0762	.2325	.5190				
270.000		.4547	.5533	-.4886	-.5379	-.3358	-.3600	-.1680	-.0537	.1067	.2638	.9094	.3838	.3543	-.3306
315.000		.4208	.2941	-.6549	-.5099	-.2761	-.0948	-.0523	-.0254	.0747	.3622				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1632	-.3354	-.1360	-.1993	.0381	.0329
45.000	-.0424	-.3077			.2418	.1929
90.000	-.1560	-.1328	.0183	.1134	.2839	.2261
135.000	.0263	-.0990			.4005	.2884
180.000	-.1021	-.0315	.2766	.0987	.2271	.0980
225.000	-.2855	-.3735			.0199	.0000
270.000	-.3321	-.3137	-.0813	-.2578	-.2099	-.1974
315.000	-.3084	-.3282			-.2024	-.1912

ALPHAL(1) =   -.136   BETAL (2) = -4.015

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3317	.3695	.2565	-.6460	-.4826	-.1642	-.0157	-.0321	-.0455	.0272	.3133	.3938	-.2194	-.1179	-.4049
45.000		.3870	.2839	-.6371	-.4418	-.2036	.0325	-.0131	-.0602	.0242	.3350				
90.000		.3935	.3141	-.6282	-.4155	-.1568	.0270	-.0220	-.0742	.0666	.3221		-.4274	-.4337	
135.000		.3952	.3017	-.6179	-.4283	.0543	.0676	.0006	-.0784	.1559	.4015				
180.000	1.3317	.3860	.2857	-.6240	-.4509	.1348	.0495	-.0295	-.0642	.2079	.4490	.6838	-.1072	-.3170	-.4694
225.000		.4130	.3312	-.6341	-.4797	-.0617	.0007	-.0687	-.0791	.2165	.5020				
270.000		.4397	.5680	-.4739	-.5148	-.3466	-.3331	-.1551	-.0421	.1024	.2868	.8839	.3636	.3571	-.3348
315.000		.3959	.2993	-.6483	-.4949	-.2924	-.0956	-.0561	-.0271	.0570	.3482				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS22)

ALPHAL(1) =   -.136   BETAL (2) =   -4.015

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1741	-.3317	-.0983	-.1684	.0637	.0560
45.000	-.0570	-.2848			.2309	.1843
90.000	-.1590	-.1226	.0193	.0983	.2384	.1823
135.000	.0024	-.1017			.3489	.2542
180.000	-.1334	-.0611	.2795	.0870	.2202	.1155
225.000	-.3047	-.3643			.0030	.0000
270.000	-.3338	-.3163	-.0798	-.2340	-.1892	-.1771
315.000	-.3081	-.3349			-.2050	-.1767

ALPHAL(1) =   -.122   BETAL (3) =   -1.975

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3264	.3523	.2556	-.6488	-.4759	-.1639	-.0124	-.0233	-.0462	.0105	.2930	.4246	-.2735	-.1977	-.4003
45.000		.3546	.2696	-.6444	-.4546	-.1824	.0259	-.0175	-.0643	.0207	.3145				
90.000		.3639	.2905	-.6368	-.4370	-.1024	.0232	-.0424	-.0883	.0626	.3066		-.4384	-.4490	
135.000		.3762	.2905	-.6224	-.4370	.0492	.0509	-.0363	-.1025	.1327	.3727				
180.000	1.3264	.3872	.2923	-.6241	-.4394	.1140	.0273	-.0681	-.0964	.1776	.4163	.6934	-.1565	-.3511	-.4751
225.000		.4136	.3427	-.6302	-.4651	-.0416	-.0199	-.0924	-.1117	.1858	.4503				
270.000		.4366	.5802	-.4667	-.4769	-.3465	-.2817	-.1515	-.0566	.0816	.2866	.8504	.3147	.3284	-.3288
315.000		.3879	.3056	-.6477	-.4836	-.2896	-.0753	-.0541	-.0481	.0367	.3284				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1626	-.3300	-.0578	-.1324	.0773	.0619
45.000	-.0668	-.2658			.2091	.1687
90.000	-.1558	-.1079	.0233	.0866	.2135	.1530
135.000	-.0318	-.1028			.3039	.2215
180.000	-.1559	-.0910	.2556	.0613	.2074	.1030
225.000	-.3185	-.3327			-.0585	.0000
270.000	-.3317	-.2894	-.1277	-.2286	-.1893	-.1839
315.000	-.3023	-.3283			-.1934	-.1573

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS22)

ALPHAL(1) =   -.119   BETAL (4) =   .085

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3210	.3297	.2502	-.6459	-.4717	-.1681	-.0208	-.0153	-.0447	.0103	.2744	.4350	-.3245	-.2748	-.4041
45.000		.3139	.2564	-.6459	-.4596	-.1735	.0144	-.0180	-.0652	.0307	.3020				
90.000		.3201	.2708	-.6390	-.4528	-.0992	.0100	-.0518	-.0962	.0704	.2972			-.4709	-.4925
135.000		.3468	.2787	-.6222	-.4434	.0270	.0240	-.0645	-.1128	.1191	.3465				
180.000	1.3210	.3660	.2972	-.6205	-.4305	.0742	-.0030	-.0972	-.1258	.1592	.3683	.6877	-.2289	-.4199	-.5063
225.000		.4102	.3585	-.6249	-.4471	-.0753	-.0426	-.1061	-.1230	.1728	.3751				
270.000		.4198	.5900	-.4572	-.4811	-.3536	-.2444	-.1351	-.0557	.0742	.2897	.7954	.2526	.3009	-.4099
315.000		.3646	.3085	-.6455	-.4720	-.2953	-.0686	-.0433	-.0438	.0300	.3061				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1476	-.3164	-.0702	-.1226	.1446	.1192
45.000	-.0358	-.2880			.1367	.0844
90.000	-.1438	-.1167	.0242	.0724	.1982	.1288
135.000	-.0728	-.0947			.2451	.1821
180.000	-.1762	-.0866	.1907	.0365	.1668	.0617
225.000	-.3167	-.2964			-.0743	.0000
270.000	-.3154	-.2681	-.1222	-.2310	-.1872	-.1885
315.000	-.2758	-.3100			-.1681	-.1225

ALPHAL(1) =   -.098   BETAL (5) =   2.148

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3101	.3095	.2591	-.6442	-.4615	-.1768	-.0392	-.0197	-.0460	.0282	.2520	.4336	-.2987	-.3039	-.4089
45.000		.3002	.2451	-.6486	-.4695	-.1691	-.0037	-.0211	-.0737	.0567	.2781				
90.000		.3023	.2509	-.6428	-.4655	-.0855	-.0075	-.0621	-.1136	.0924	.2768			-.5067	-.5416
135.000		.3194	.2612	-.6242	-.4520	-.0034	-.0160	-.0959	-.1263	.1175	.3070				
180.000	1.3101	.3516	.2992	-.6181	-.4153	.0263	-.0488	-.1307	-.1375	.1477	.2771	.6279	-.1983	-.4528	-.5080
225.000		.3968	.3688	-.6178	-.4254	-.0455	-.0720	-.1242	-.0937	.1708	.2917				
270.000		.4075	.6034	-.4470	-.5140	-.3527	-.2198	-.1317	-.0424	.0774	.2846	.7523	.1293	.3009	-.5135
315.000		.3544	.3218	-.6386	-.4719	-.2953	-.0747	-.0368	-.0350	.0404	.2924				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1349	-.2753	.0065	-.0691	.1211	.0881
45.000	-.0557	-.2480			.2578	.1818
90.000	-.1390	-.1414	.0561	.0308	.1695	.0833
135.000	-.1222	-.0838			.1264	.0712
180.000	-.2068	-.1134	.1518	-.0362	.0805	-.0199

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS22)

ALPHAL(1) =   -.098   BETAL (5) =   2.148

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2941	-.3037			-.0272	.0000
270.000	-.2948	-.2764	-.0930	-.2055	-.1556	-.1654
315.000	-.2689	-.3179			-.1090	-.0719

ALPHAL(1) =   -.090   BETAL (6) =   4.193

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3020	.3060	.2548	-.6532	-.4589	-.2097	-.0536	-.0314	-.0573	.0441	.2455	.4019	-.2401	-.3460	-.4233
45.000		.2778	.2245	-.6614	-.4890	-.1630	-.0239	-.0351	-.0895	.0615	.26⌐		-.5226	-.5202	
90.000		.2775	.2280	-.6515	-.4913	-.0698	-.0290	-.0710	-.1443	.1010	.25ᴿ				
135.000		.3018	.2390	-.6376	-.4717	-.0397	-.0598	-.1302	-.1387	.1173	.2653				
180.000	1.3020	.3413	.2946	-.6274	-.4001	-.0252	-.1073	-.1655	-.1227	.1384	.2237	.5689	-.2195	-.4700	-.4958
225.000		.4041	.3815	-.6241	-.3989	-.0350	-.1320	-.1432	-.0447	.1679	.2479				
270.000		.4079	.6133	-.4440	-.5074	-.3354	-.2438	-.1398	-.0325	.0950	.2895	.7033	.1373	.3634	-.4841
315.000		.3622	.3351	-.6440	-.4655	-.2941	-.0933	-.0491	-.0328	.0579	.2895				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1356	-.2530	.0773	-.0286	.1657	.1078
45.000	-.0830	-.2185			.1825	.1037
90.000	-.1439	-.1305	.1013	-.0094	.1435	.0331
135.000	-.1481	-.0763			.0571	-.0208
180.000	-.1647	-.1725	.1983	-.1290	.0516	-.0446
225.000	-.2859	-.3614			-.0262	.0000
270.000	-.3096	-.2879	-.0008	-.1711	-.1290	-.1708
315.000	-.2862	-.3383			-.0059	.0321

ALPHAL(1) =   -.094   BETAL (7) =   6.254

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2902	.2729	.2451	-.6573	-.4502	-.2360	-.0765	-.0504	-.0433	.0405	.2476	.4792	-.2561	-.3822	-.4524
45.000		.2489	.2060	-.6659	-.5060	-.1441	-.0473	-.0474	-.0776	.0599	.2674				
90.000		.2475	.2077	-.6570	-.5090	-.0650	-.0501	-.0803	-.1409	.1005	.2592		-.5529	-.5757	
135.000		.2729	.2177	-.6483	-.4840	-.0731	-.1046	-.1567	-.0946	.1121	.2548				
180.000	1.2902	.3282	.2891	-.6345	-.3822	-.0677	-.1608	-.1947	-.0707	.1309	.1828	.5383	-.1980	-.4044	-.5016
225.000		.3932	.3866	-.6263	-.3760	-.0235	-.1810	-.1642	-.0264	.1532	.2418				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS22)

ALPHAL(1) =   -.094   BETAL (7) =   6.254

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3973	.6164	-.4376	-.5098	-.3043	-.2510	-.1296	-.0291	.1017	.2902	.6438	.1669	.2899	-.4665
315.000		.3550	.3416	-.6456	-.4506	-.2866	-.1125	-.0570	-.0114	.0625	.2889				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1180	-.2363	.1463	.0302	.2868	.2125
45.000	-.0854	-.1967			.1362	.0523
90.000	-.1492	-.1381	.1487	-.0377	.1838	.0845
135.000	-.1550	-.0900			.0345	-.0479
180.000	-.1764	-.1902	.1436	-.1589	-.0337	-.1222
225.000	-.3145	-.3808			-.0302	.0000
270.000	-.3305	-.2860	.0237	-.1565	-.1312	-.1938
315.000	-.2912	-.3385			.0831	.0980

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS23)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 976.0000 IN. XT		MACH =	1.400	RN/FT = 2.250
LREF = 1297.0000 INCHES	YMRP = .0000 IN. YT		ELV-IB =	.000	ELV-OB = .000
BREF = 1297.0000 INCHES	ZMRP = 400.0000 IN. ZT		RUDDER =	.000	SPDBRK = .000
SCALE = .0300 SCALE					

BETAL (1) = .213   ALPHAL(1) = -6.775

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4284	.0381	.1408	-.3939	-.3329	-.2892	-.1545	-.0910	-.1139	-.0950	.1790	.3125	-.0185	-.0825	-.3564
45.000		.1017	.1456	-.3762	-.3000	-.2293	-.1913	-.1545	-.1363	-.2683	.0592				
90.000		.1493	.2007	-.3611	-.2886	-.2721	-.2442	-.3404	-.2674	-.2349	.0260		-.1872	-.1048	
135.000		.2543	.3379	-.3031	-.2240	-.0977	-.0560	-.1643	-.2308	-.2064	.0076				
180.000	1.4284	.3278	.4848	-.2634	-.1545	.0693	.0896	-.0061	-.1598	-.1682	.1405	.5846	.0269	-.1240	-.4525
225.000		.2537	.6131	-.2352	-.1160	.1311	.1209	-.0145	-.0925	-.0744	.3157				
270.000		.0586	.6267	-.1796	-.0809	-.2392	-.3036	-.0715	-.0838	-.0675	.3216	.7312	.3028	.3873	-.4592
315.000		-.0203	.1326	-.4397	-.5170	-.3747	-.2986	-.1086	-.0553	-.0622	.3160				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0433	-.2725	.0755	-.2298	.1905	.0420
45.000	-.0550	-.2557			-.0400	-.0947
90.000	-.1663	-.1881	.0746	-.0577	-.0092	.0432
135.000	.0031	-.2203			.2320	.3262
180.000	-.0094	-.2402	-.0011	.0614	.2709	.2122
225.000	-.2045	-.2457			.0102	.0000
270.000	-.2628	-.1902	-.1089	-.2062	-.1638	-.1570
315.000	-.2045	-.2519			-.0614	-.0587

BETAL (1) = .141   ALPHAL(2) = -4.529

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4398	.0750	.1929	-.3684	-.3112	-.2492	-.1175	-.0385	-.0732	-.0766	.1953	.3184	-.0275	-.0284	-.2965
45.000		.1313	.1920	-.3555	-.2743	-.1940	-.1379	-.0786	-.0930	-.1172	.1225				
90.000		.1797	.2254	-.3417	-.2594	-.2222	-.1561	-.2317	-.1714	-.1784	.1278		-.1724	-.1072	
135.000		.2385	.3289	-.3019	-.2250	-.1251	-.0040	-.1115	-.1656	-.1484	.1825				
180.000	1.4398	.2750	.4370	-.2721	-.1860	-.0557	.0945	-.0632	-.1306	-.1500	.2059	.6826	.0122	-.1488	-.4156
225.000		.2146	.5688	-.2511	-.1667	-.0591	.1096	-.0299	-.0960	-.0809	.3459				
270.000		.0832	.6890	-.1457	-.1676	-.3223	-.3035	-.0811	-.0863	-.0684	.3102	.7915	.3030	.3732	-.4222
315.000		.0294	.2389	-.3924	-.4392	-.3763	-.1994	-.1077	-.0500	-.0547	.3134				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS23)

BETAL (1) =   .141   ALPHAL(2) =   -4.529

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0568	-.3169	.1355	-.2499	.0729	.0016
45.000	-.0212	-.2439			.0069	-.0160
90.000	-.1154	-.2045	.0676	-.0415	.0597	.0845
135.000	.0640	-.2504			.1779	.3092
180.000	.0540	-.2020	-.0135	.0390	.1942	.1731
225.000	-.1819	-.2747			-.0198	.0000
270.000	-.2411	-.2219	-.1000	-.1940	-.1553	-.1395
315.000	-.2039	-.2716			-.0629	-.0065

BETAL (1) =   .089   ALPHAL(3) =   -2.328

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4434	.1112	.2459	-.3588	-.2932	-.2519	-.1267	-.0231	-.0586	-.0590	.2378	.3850	-.0566	.0387	-.2510
45.000		.1585	.2210	-.3493	-.2615	-.1646	-.1314	-.0221	-.0656	-.0875	.1846				
90.000		.1897	.2336	-.3376	-.2460	-.1789	-.1129	-.1254	-.1062	-.1222	.1298		-.1402	-.0941	
135.000		.2156	.3033	-.3109	-.2361	-.1237	.0165	-.0722	-.0981	-.1347	.2788				
180.000	1.4434	.2191	.3784	-.2929	-.2218	-.1771	.1012	-.0662	-.1172	-.1485	.2894	.7464	-.0301	-.1660	-.3905
225.000		.1683	.4997	-.2792	-.2140	-.2270	.0990	-.0533	-.0978	-.0940	.3676				
270.000		.0898	.7236	-.1287	-.3211	-.3422	-.3166	-.0999	-.0849	-.0508	.3038	.8212	.2692	.3646	-.4195
315.000		.0687	.3263	-.3609	-.3652	-.3471	-.1714	-.1099	-.0502	-.0442	.2954				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0647	-.3245	.0099	-.1264	.0616	.0475
45.000	.0205	-.2542			.1237	.1593
90.000	-.0679	-.2265	.0436	-.0382	.1218	.1454
135.000	.1038	-.2766			.1495	.2246
180.000	.0970	-.2022	.0084	.0317	.1580	.1611
225.000	-.1870	-.2784			.0150	.0000
270.000	-.2386	-.2112	-.1066	-.1853	-.1480	-.1281
315.000	-.2150	-.2588			-.0772	-.0314

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS23)

BETAL (1) =   .053   ALPHAL(4) =   -.129

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4405	.1524	.2977	-.3330	-.2672	-.2275	-.0964	-.0266	-.0363	-.0403	.2278	.3692	-.1140	.0281	-.2369
45.000		.1827	.2596	-.3421	-.2526	-.1428	-.1241	.0074	-.0301	-.0578	.2547				
90.000		.1937	.2259	-.3374	-.2411	-.1577	-.0536	-.0392	-.0483	-.0750	.2272		-.1301	-.1023	
135.000		.1909	.2612	-.3212	-.2452	-.1331	.0124	-.0332	-.0563	-.1076	.3201				
180.000	1.4405	.1669	.3198	-.3147	-.2517	-.2005	.0655	-.0502	-.0719	-.1326	.3655	.7681	-.0511	-.1588	-.3588
225.000		.1247	.4238	-.3144	-.2728	-.2467	.0721	-.0354	-.0822	-.0828	.4002				
270.000		.0919	.7419	-.1257	-.4087	-.3172	-.2960	-.1329	-.0994	-.0303	.2225	.7441	.1917	.2830	-.4077
315.000		.1108	.4106	-.3271	-.2806	-.2885	-.1102	-.0829	-.0628	-.0378	.2805				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0647	-.2800	-.0248	-.1365	.0851	.1115
45.000	.0436	-.2452			.1874	.2034
90.000	-.0464	-.2238	.0376	-.0616	.1701	.1987
135.000	.1666	-.3058			.1509	.2072
180.000	.0948	-.2101	.0328	.0303	.1200	.1258
225.000	-.2132	-.2769			.0429	.0000
270.000	-.2446	-.2098	-.0578	-.1554	-.1198	-.1122
315.000	-.2151	-.2614			-.0950	-.0552

BETAL (1) =   .091   ALPHAL(5) =   2.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4348	.2025	.3481	-.3118	-.2429	-.2294	-.0895	-.0316	-.0348	-.0308	.2263	.3926	-.0488	-.0334	-.2339
45.000		.2035	.2868	-.3329	-.2485	-.1380	-.1087	.0083	-.0172	-.0471	.2673				
90.000		.1849	.2339	-.3383	-.2513	-.1725	-.0671	.0001	-.0213	-.0608	.2635		-.1491	-.1324	
135.000		.1800	.2351	-.3340	-.2631	-.1532	.0081	-.0352	-.0486	-.0865	.3314				
180.000	1.4348	.1159	.2616	-.3418	-.2843	-.1818	.0122	-.0773	-.0505	-.0909	.3940	.7506	-.0539	-.1340	-.3194
225.000		.0762	.3401	-.3533	-.3201	-.2623	-.0221	-.0232	-.0433	.0379	.4168				
270.000		.0951	.7185	-.1444	-.3990	-.2822	-.0857	-.0761	-.0708	.0404	.1599	.6919	.2277	.2567	-.3910
315.000		.1518	.4881	-.2992	-.2061	-.2198	-.0687	-.0443	-.0439	-.0049	.3031				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0315	-.2349	.0097	-.0843	.1261	.1453
45.000	.0451	-.2023			.1667	.1500
90.000	-.0539	-.2119	.0560	-.0614	.1997	.2047
135.000	.2069	-.3073			.1661	.1962
180.000	.0839	-.2153	.0544	.0311	.1050	.0931

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS23)

BETAL (1) =   .091   ALPHAL(5) =   2.059

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.1877	-.2694			.0761	.0000
270.000	-.2368	-.2032	-.0164	-.1387	-.0985	-.0972
315.000	-.2110	-.2501			-.0566	-.0220

BETAL (1) =   .135   ALPHAL(6) =   4.186

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4276	.2558	.4049	-.2986	-.2094	-.2150	-.0676	-.0367	-.0333	-.0143	.2150	.4015	-.0329	-.0647	-.2835
45.000		.2233	.3031	-.3301	-.2408	-.1458	-.1142	-.0204	-.0273	-.0431	.2911				
90.000		.1732	.2202	-.3516	-.2625	-.2228	-.1208	-.0018	-.0141	-.0751	.2660		-.1820	-.1909	
135.000		.1278	.1978	-.3455	-.2806	-.1715	-.0179	-.0238	-.0337	-.0547	.2999				
180.000	1.4276	.0688	.2009	-.3591	-.3054	-.1597	-.0282	-.0424	-.0281	.0471	.3478	.5749	-.0937	-.1250	-.2413
225.000		.0256	.2492	-.3921	-.3800	-.2594	-.0625	-.0144	-.0341	.1198	.3591				
270.000		.0830	.6878	-.1489	-.4126	-.2650	-.0666	-.0229	-.0394	.0712	.1486	.5049	.1796	.1240	-.3888
315.000		.1978	.5494	-.2688	-.1464	-.1934	-.0396	-.0305	-.0341	.0214	.2833				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0039	-.1961	.0893	-.0288	.2132	.2461
45.000	.0660	-.1952			.2860	.2816
90.000	-.0055	-.1499	.0802	-.0204	.1163	.0629
135.000	.1948	-.2787			.1870	.2117
180.000	.0604	-.1989	.0846	.0346	.1021	.0666
225.000	-.1453	-.2877			.1587	.0000
270.000	-.2110	-.1751	.0321	-.0955	-.0286	-.0422
315.000	-.1840	-.2244			.0506	.1048

BETAL (1) =   .167   ALPHAL(7) =   5.264

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.4232	.2836	.4283	-.2978	-.1927	-.2005	-.0705	-.0374	-.0346	-.0036	.2365	.4305	-.0214	-.0645	-.3005
45.000		.2322	.3086	-.3332	-.2393	-.1502	-.1227	-.0453	-.0381	-.0434	.3060				
90.000		.1614	.2044	-.3594	-.2731	-.2486	-.1507	-.0242	-.0195	-.0809	.2803		-.1840	-.1985	
135.000		.1090	.1734	-.3517	-.2911	-.1822	-.0406	-.0233	-.0233	-.0180	.2762				
180.000	1.4232	.0442	.1693	-.3715	-.3163	-.1676	-.0513	-.0227	-.0236	.0753	.3194	.5193	-.1005	-.1342	-.2111
225.000		.0054	.1981	-.4138	-.3989	-.2405	-.0938	-.0167	-.0258	.1307	.3279				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS23)

BETAL (1) =   .167   ALPHAL(7) =   5.264

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
270.000		.0739	.6538	-.1623	-.4221	-.2340	-.0422	-.0101	-.0243	.0906	.1501	.4724	.1519	.1002	-.3897
315.000		.2173	.5745	-.2573	-.1073	-.1875	-.0343	-.0157	-.0290	.0352	.2902				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	.0095	-.1757	.1296	-.0137	.2438	.2711
45.000	.0895	-.1866			.2947	.3107
90.000	.0164	-.1195	.1167	-.0078	.0869	.0413
135.000	.1972	-.2685			.2095	.2202
180.000	.0464	-.1791	.0957	.0322	.0916	.0505
225.000	-.1425	-.2958			.1545	.0000
270.000	-.2061	-.1676	.0664	-.0798	-.0163	-.0349
315.000	-.1838	-.2126			.0872	.1360

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS24)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

```
SREF  =  2690.0000 SQ.FT.    XMRP  =   976.0000 IN. XT         MACH   =    1.250   PN/FT  =   2.250
LREF  =  1297.0000 INCHES    YMRP  =      .0000 IN. YT         ELV-IB =     .000   ELV-OB =    .000
BREF  =  1297.0000 INCHES    ZMRP  =   400.0000 IN. ZT         RUDDER =     .000   SPDBRK =    .000
SCALE =     .0300 SCALE
```

BETAL (1) =   .229   ALPHAL(1) =   -6.731

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3676	.0487	.1172	-.5175	-.4426	-.3362	-.0978	-.1062	-.1256	-.0897	.2342	.4006	-.1425	-.2522	-.4273
45.000		.0882	.1623	-.4965	-.4080	-.2888	-.1836	-.1336	-.1916	-.2557	.1258				
90.000		.1686	.2253	-.4809	-.3717	-.2968	-.3279	-.3251	-.2855	-.2035	.0441		-.3319	-.2603	
135.000		.3063	.3339	-.4375	-.2884	.0131	-.1368	-.2381	-.2644	-.1028	.1415				
180.000	1.3676	.4487	.4703	-.3997	-.1975	.1594	-.0066	-.0753	-.1881	.1049	.1768	.5668	-.0822	-.2140	-.5439
225.000		.4849	.5805	-.3765	-.1676	.2068	.0243	-.0143	-.1477	.1281	.3032				
270.000		.2933	.5304	-.3304	-.1886	-.2767	-.4398	-.1588	-.0778	.0315	.3080	.6749	.1918	.2441	-.5348
315.000		.1279	.0598	-.5781	-.6209	-.4433	-.2090	-.1223	-.0804	-.0396	.3087				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.0806	-.3301	.1598	-.2805	.1979	.0276
45.000	-.1036	-.2325			-.0218	-.0951
90.000	-.2062	-.1454	.1049	-.0957	.0392	.0938
135.000	-.0870	-.1789			.3818	.3420
180.000	-.0991	-.2274	.2993	-.0806	.3247	.2405
225.000	-.2580	-.2729			-.0289	.0000
270.000	-.2867	-.2385	-.0909	-.2133	-.1703	-.1638
315.000	-.2366	-.2828			-.0877	-.0700

BETAL (1) =   .125   ALPHAL(2) =   -4.484

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.3768	.0852	.1749	-.4928	-.4180	-.2946	-.0689	-.0654	-.0837	-.0719	.2147	.3804	-.1873	-.1932	-.3605
45.000		.1123	.2113	-.4750	-.3804	-.2606	-.1047	-.0924	-.1259	-.1190	.1910				
90.000		.1704	.2662	-.4621	-.3502	-.2682	-.2219	-.2080	-.2151	-.1494	.1567		-.3085	-.2716	
135.000		.2617	.3356	-.4342	-.3035	-.0215	-.0699	-.1745	-.2068	-.0459	.2622				
180.000	1.3768	.3582	.4230	-.4148	-.2463	.1674	.0096	-.0567	-.1591	.1243	.2506	.6536	-.0998	-.2603	-.4809
225.000		.4204	.5311	-.3932	-.2332	.2186	.0122	-.0164	-.1533	.1365	.3276				
270.000		.3417	.6021	-.2975	-.3045	-.2768	-.4418	-.1594	-.0911	.0384	.2846	.7425	.2076	.2945	-.3995
315.000		.1029	.1697	-.5363	-.5474	-.4267	-.1311	-.0799	-.0719	-.0331	.2790				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS24)

BETAL (1) =   .125   ALPHAL(2) =   -4.484

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1082	-.3295	.1490	-.1761	.0829	-.0058
45.000	-.0498	-.2260			.0074	-.0423
90.000	-.1683	-.1559	.0916	-.0316	.0787	.1016
135.000	-.0285	-.1817			.3122	.3275
180.000	-.0639	-.1792	.1951	.0516	.2867	.2235
225.000	-.2489	-.2683			-.0113	.0000
270.000	-.2779	-.2276	-.0639	-.1926	-.1619	-.1488
315.000	-.2425	-.2855			-.0852	-.0635

BETAL (1) =   .081   ALPHAL(3) =   -2.301

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3824	.1114	.2285	-.4760	-.3887	-.2645	-.0660	-.0415	-.0612	-.0514	.2640	.4082	-.1758	-.1100	-.3162
45.000		.1446	.2511	-.4618	-.3547	-.2261	-.0412	-.0415	-.0917	-.0876	.2464		-.2872	-.2762	
90.000		.1772	.2924	-.4518	-.3344	-.2236	-.1200	-.1052	-.1464	-.1036	.2087				
135.000		.2030	.3214	-.4310	-.3160	-.0994	-.0116	-.1104	-.1647	-.0069	.3347				
180.000	1.3824	.2233	.3737	-.4227	-.2957	.0467	.0273	-.0309	-.1259	.1322	.3287	.7175	-.0690	-.2711	-.4470
225.000		.2688	.4682	-.4141	-.2861	.1267	.0141	.0003	-.1333	.1495	.3655				
270.000		.1966	.6459	-.2766	-.4170	-.3868	-.4331	-.1323	-.0690	.0545	.2941	.8062	.2752	.3720	-.3689
315.000		.1514	.2714	-.4951	-.4561	-.3839	-.1506	-.0943	-.0588	-.0207	.3036				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0996	-.3512	.0713	-.0877	.0851	.0590
45.000	-.0351	-.2656			.1373	.1408
90.000	-.1113	-.1839	.0777	.0230	.1321	.1192
135.000	.0152	-.1890			.2509	.2693
180.000	-.0496	-.1635	.1453	.0825	.2277	.1693
225.000	-.2370	-.2701			-.0452	.0000
270.000	-.2650	-.2233	-.0868	-.1866	-.1495	-.1345
315.000	-.2389	-.2710			-.0884	-.0477

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS24)

BETAL (1) =   .045   ALPHAL(4) =   -.111

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3847	.1571	.2857	-.4613	-.3599	-.2318	-.0584	-.0336	-.0401	-.0398	.2602	.4032	-.1824	-.0866	-.2910
45.000		.1707	.2863	-.4552	-.3392	-.1987	-.0137	-.0092	-.0520	-.0671	.2898				
90.000		.1823	.2995	-.4455	-.3268	-.2076	-.0404	-.0278	-.0884	-.0893	.2689		-.2693	-.2654	
135.000		.1749	.3050	-.4349	-.3294	-.1494	.0137	-.0375	-.1297	.0150	.3565				
180.000	1.3847	.1542	.3238	-.4346	-.3364	-.0598	.0488	-.0182	-.1172	.1383	.3880	.7456	-.0999	-.2697	-.4051
225.000		.1991	.3971	-.4438	-.3539	-.1631	.0124	-.0037	-.1172	.1614	.3960				
270.000		.2046	.6670	-.2693	-.4696	-.3761	-.3479	-.1689	-.0758	.0542	.2400	.7973	.2267	.3292	-.3689
315.000		.1968	.3599	-.4613	-.3863	-.3279	-.1083	-.0890	-.0678	-.0148	.3046				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0970	-.3013	-.0001	-.1211	.1698	.1766
45.000	.0068	-.2571			.1576	.1501
90.000	-.0611	-.1959	.0708	.0347	.1921	.1630
135.000	.0616	-.1962			.2359	.2369
180.000	-.0288	-.1450	.1340	.0821	.1859	.1304
225.000	-.2224	-.2653			-.0130	.0000
270.000	-.2612	-.2147	-.0537	-.1653	-.1314	-.1244
315.000	-.2354	-.2685			-.1050	-.0650

BETAL (1) =   .084   ALPHAL(5) =   2.053

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3823	.2067	.3394	-.4441	-.3266	-.2454	-.0776	-.0380	-.0264	-.0271	.2634	.4376	-.1085	-.1425	-.2953
45.000		.2018	.3097	-.4499	-.3269	-.1827	-.0296	-.0016	-.0331	-.0522	.3016				
90.000		.1838	.2965	-.4492	-.3311	-.2187	.0058	.0097	-.0586	-.0733	.2823		-.2590	-.2572	
135.000		.1582	.2781	-.4387	-.3432	-.1929	.0007	.0113	-.0919	.0380	.3583				
180.000	1.3823	.1153	.2703	-.4489	-.3664	-.1133	.0097	.0258	-.0839	.1435	.3946	.7018	-.1441	-.2352	-.3631
225.000		.1599	.3097	-.4772	-.3871	-.2773	-.0138	.0119	-.0842	.1637	.3888	.7021	.2619	.2678	-.3386
270.000		.2099	.6482	-.2795	-.4142	-.3317	-.0808	-.0676	-.0608	.0755	.2394				
315.000		.2558	.4415	-.4314	-.3139	-.2544	-.0818	-.0499	-.0271	.0107	.3165				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0578	-.2510	.0362	-.0353	.1786	.1797
45.000	-.0032	-.2218			.1723	.1452
90.000	-.0549	-.1868	.0913	.0382	.1864	.1503
135.000	.1067	-.1998			.2138	.2117
180.000	-.0151	-.1264	.1409	.0681	.1471	.0985

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS24)

BETAL (1) =   .084   ALPHAL(5) =   2.053

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2180	-.2670			.0366	.0000
270.000	-.2533	-.2203	-.0253	-.1464	-.1013	-.1080
315.000	-.2224	-.2610			-.0511	-.0249

BETAL (1) =   .106   ALPHAL(6) =   4.193

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3705	.2749	.3827	-.4396	-.2909	-.2482	-.0694	-.0423	-.0187	-.0225	.2869	.4869	-.0879	-.1306	-.3366
45.000		.2267	.3160	-.4564	-.3208	-.1737	-.0865	-.0197	-.0303	-.0614	.3332		-.2891	-.3078	
90.000		.1724	.2633	-.4638	-.3470	-.2667	-.0168	-.0103	-.0662	-.0788	.3056				
135.000		.1212	.2258	-.4556	-.3658	-.1992	-.0087	.0217	-.0743	.0520	.3367				
180.000	1.3705	.0691	.2135	-.4667	-.3928	-.1896	-.0210	.0349	-.0707	.1336	.3746	.6043	-.1720	-.2296	-.3236
225.000		.1025	.2067	-.5167	-.3489	-.3282	-.0597	-.0009	-.0653	.1642	.3669				
270.000		.1863	.6060	-.2928	-.3868	-.3154	-.0917	-.0542	-.0537	.0954	.2304	.5442	.1778	.1280	-.3970
315.000		.2953	.5018	-.4094	-.2492	-.2458	-.0458	-.0568	-.0293	.0247	.3162				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0233	-.2248	.1301	.0186	.2895	.2808
45.000	.0453	-.2041			.2688	.2462
90.000	-.0407	-.1320	.1201	.0382	.1066	.0424
135.000	.1370	-.2127			.2240	.1930
180.000	-.0235	-.1179	.1588	.0544	.1363	.0770
225.000	-.1872	-.2950			.1308	.0000
270.000	-.2335	-.2047	.0698	-.1004	-.0459	-.0742
315.000	-.1964	-.2497			.0427	.0780

BETAL (1) =   .177   ALPHAL(7) =   6.335

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3543	.4031	.4264	-.4283	-.2531	-.1592	-.0634	-.0537	-.0092	-.0119	.3528	.5561	.0347	-.1095	-.3640
45.000		.2774	.3182	-.4584	-.3150	-.1899	-.1377	-.0544	-.0334	-.0676	.3666		-.3099	-.3368	
90.000		.1553	.2318	-.4801	-.3711	-.3280	-.0947	-.0653	-.0828	-.0495	.3288				
135.000		.0808	.1796	-.4758	-.3979	-.2135	-.0308	.0067	-.0589	.0386	.2917				
180.000	1.3543	.0342	.1592	-.4930	-.4215	-.2020	-.0427	.0312	-.0515	.1318	.3180	.5026	-.2108	-.2487	-.2957
225.000		.0598	.1090	-.5591	-.3517	-.2773	-.0754	.0083	-.0383	.1717	.2974				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS24)

BETAL (1) =   .177   ALPHAL(7) =   6.337

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3241	.5547	-.3233	-.4318	-.2540	-.0834	-.0237	-.0280	.1286	.2691	.4239	.0657	.0855	-.3993
315.000		.4326	.5537	-.3976	-.1902	-.1958	-.0266	-.0369	-.0055	.0373	.3773				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0006	-.2087	.1819	.0425	.3798	.3694
45.000	.0538	-.1994			.2962	.2703
90.000	-.0233	-.1261	.1629	.0079	.0951	.0402
135.000	.1459	-.2160			.1922	.1478
180.000	-.0116	-.1392	.1880	.0212	.1325	.0591
225.000	-.1774	-.3037			.1390	.0000
270.000	-.2179	-.1915	.0767	-.0831	-.0169	-.0614
315.000	-.1787	-.2176			.0906	.1469

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS2□) (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

MACH	=	1.100	RN/FT =	2.250
ELV-IB	=	.000	ELV-OB =	.000
RUDDER	=	.000	SPDBRK =	.000

SREF = 2690.0000 SQ.FT.   XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES   YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES   ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

BETAL (1) = .227   ALPHAL(1) = -6.616

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2895	.2091	.1012	-.6947	-.5567	-.2053	-.1211	-.1153	-.1304	-.0166	.2182	.4476	-.3246	-.4302	-.5128
45.000		.2363	.1341	-.6943	-.5519	-.1505	-.1540	-.1763	-.2288	-.1197	.1646		-.5281	-.5104	
90.000		.2889	.1912	-.6861	-.4843	-.3657	-.3011	-.3276	-.2792	-.1316	.1369				
135.000		.4480	.3022	-.6362	-.3466	-.0083	-.2181	-.2556	-.2682	-.0415	.2520	.6387	-.2191	-.4059	-.6322
180.000	1.2895	.6006	.4470	-.5895	.1177	.0824	-.1163	-.1770	-.1927	.0715	.2770				
225.000		.5923	.5498	-.5526	.2536	.1457	-.0965	-.1605	-.1521	.1017	.3108	.7256	.1940	.2224	-.6353
270.000		.3525	.4254	-.5151	.0394	-.4256	-.5949	-.2329	-.0995	.0218	.2889				
315.000		.1899	-.0069	-.7691	-.5654	-.4091	-.1520	-.1105	-.0906	.0051	.2806				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1607	-.3130	.0464	-.1812	-.0009	-.1071
45.000	-.1573	-.2186			-.0358	-.1109
90.000	-.2639	-.1192	.0759	-.0993	.1275	.0980
135.000	-.1270	-.0936			.3536	.2745
180.000	-.1666	-.1865	.4273	-.0880	.2750	.1665
225.000	-.2815	-.3117			-.1153	.0000
270.000	-.3262	-.2874	-.1452	-.2600	-.2230	-.2126
315.000	-.2957	-.3212			-.1352	-.1219

BETAL (1) = .145   ALPHAL(2) = -4.423

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3123	.2321	.1566	-.6743	-.5519	-.2140	-.0736	-.0719	-.0896	-.0095	.2493	.4102	-.2974	-.3927	-.4629
45.000		.2617	.1833	-.6698	-.5188	-.0991	-.0828	-.1191	-.1232	-.0256	.2288		-.5197	-.5111	
90.000		.3107	.2348	-.6612	-.4675	-.2201	-.1846	-.2284	-.1986	-.0736	.1947				
135.000		.4075	.3038	-.6265	-.3851	.0144	-.1260	-.1822	-.1952	.0136	.2806	.6549	-.2454	-.4392	-.5913
180.000	1.3123	.5112	.3990	-.5995	-.2680	.1185	-.0907	-.1534	-.1510	.0933	.2963				
225.000		.5191	.5010	-.5756	-.2711	.1654	-.1054	-.1537	-.1486	.1184	.3120	.6962	.0936	.1565	-.4478
270.000		.3787	.5017	-.4955	-.4062	-.3326	-.5914	-.2096	-.0832	.0352	.2895				
315.000		.2435	.1132	-.7174	-.4606	-.4370	-.1000	-.0814	-.0692	.0062	.2973				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS25)

BETAL (1) =   .145   ALPHAL(2) =   -4.423

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1687	-.3599	.0625	-.1533	.0344	-.0566
45.000	-.0892	-.2291			.0114	-.0493
90.000	-.2378	-.1092	.0498	-.0246	.1479	.1095
135.000	-.1092	-.0994			.2979	.2300
180.000	-.1905	-.1529	.3346	-.0281	.2605	.1487
225.000	-.3331	-.3152			-.0607	.0000
270.000	-.3243	-.2854	-.1341	-.2511	-.2089	-.1953
315.000	-.3047	-.3457			-.1430	-.1331

BETAL (1) =   .086   ALPHAL(3) =   -2.259

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3179	.2848	.2057	-.6658	-.5229	-.2207	-.0480	-.0411	-.0689	.0034	.2559	.4290	-.3495	-.2948	-.4349
45.000		.3034	.2274	-.6634	-.4931	-.1288	-.0260	-.0682	-.1001	.0051	.2563				
90.000		.3299	.2625	-.6524	-.4622	-.1193	-.0926	-.1437	-.1416	-.0055	.2436		-.5060	-.5206	
135.000		.3890	.2955	-.6325	-.4181	.0306	-.0569	-.1234	-.1558	.0567	.3208				
180.000	1.3179	.4406	.3495	-.6223	-.3554	.1191	-.0583	-.1337	-.1476	.1162	.3280	.6719	-.2535	-.4514	-.5478
225.000		.4778	.4358	-.6104	-.3557	.1235	-.0957	-.1427	-.1520	.1360	.3342				
270.000		.4303	.5613	-.4809	-.5619	-.3608	-.4366	-.1921	-.0810	.0489	.2826	.7717	.1693	.2707	-.4958
315.000		.3192	.2174	-.6901	-.4934	-.4013	-.0871	-.0703	-.0666	.0171	.2897				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1836	-.3274	-.0115	-.1988	.1195	.0439
45.000	-.0711	-.2281			.1108	.0593
90.000	-.1926	-.1015	.0410	.0485	.1640	.1053
135.000	-.1018	-.0933			.2546	.1901
180.000	-.1858	-.1187	.2653	.0173	.2175	.1127
225.000	-.3236	-.3166			-.0749	.0000
270.000	-.3165	-.2770	-.1089	-.2338	-.1978	-.1919
315.000	-.2884	-.3193			-.1665	-.1233

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS25)

BETAL (1) =   .062   ALPHAL(4) =   -.108

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3174	.3299	.2535	-.6586	-.4764	-.1770	-.0322	-.0250	-.0589	.0124	.2654	.4278	-.3384	-.2819	-.4135
45.000		.3224	.2569	-.6586	-.4665	-.1706	.0028	-.0280	-.0802	.0298	.2961				
90.000		.3293	.2679	-.6500	-.4547	-.0896	-.0062	-.0637	-.1125	.0663	.2903		-.4820	-.5044	
135.000		.3503	.2738	-.6304	-.4438	.0290	.0076	-.0798	-.1249	.1077	.3368				
180.000	1.3174	.3809	.3000	-.6294	-.4266	.0842	-.0185	-.1121	-.1365	.1486	.3607	.6781	-.2458	-.4300	-.5127
225.000		.4212	.3620	-.6321	-.4417	-.0286	-.0590	-.1238	-.1345	.1625	.3614				
270.000		.4342	.5862	-.4665	-.4945	-.3610	-.2813	-.1564	-.0669	.0593	.2886	.7890	.2405	.2866	-.4366
315.000		.3771	.3048	-.6548	-.4806	-.2995	-.0751	-.0568	-.0566	.0221	.3028				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1573	-.3163	-.0652	-.1249	.1368	.1121
45.000	-.0433	-.2874			.1320	.0767
90.000	-.1470	-.1171	.0255	.0660	.1942	.1248
135.000	-.0767	-.1005			.2313	.1704
180.000	-.1761	-.0940	.1890	.0265	.1588	.0563
225.000	-.3112	-.3098			-.0659	.0000
270.000	-.3156	-.2722	-.1081	-.2345	-.1936	-.1888
315.000	-.2823	-.3326			-.1689	-.1252

BETAL (1) =   .087   ALPHAL(5) =   2.042

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3156	.3887	.2965	-.6423	-.4322	-.1350	-.0262	-.0196	-.0384	-.0024	.2775	.4679	-.2502	-.3134	-.4043
45.000		.3495	.2698	-.6488	-.4505	-.1739	.0161	-.0048	-.0623	.0130	.3024				
90.000		.3237	.2629	-.6481	-.4640	-.1445	.0380	-.0157	-.0953	.0751	.2915		-.4543	-.4692	
135.000		.3079	.2444	-.6365	-.4786	.0001	.0394	-.0411	-.1015	.1319	.3338				
180.000	1.3156	.3038	.2461	-.6413	-.4895	.0166	.0113	-.0757	-.1189	.1616	.3543	.6452	-.2622	-.4033	-.4651
225.000		.3399	.2791	-.6630	-.4298	-.1912	-.0038	-.0713	-.1063	.1738	.3567				
270.000		.4152	.5770	-.4725	-.4098	-.3245	-.0718	-.0603	-.0584	.0943	.2861	.6500	.2034	.2072	-.4109
315.000		.4190	.3839	-.6288	-.4386	-.2214	-.0694	-.0168	-.0294	.0339	.3092				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1155	-.2848	.0360	-.0616	.1648	.1338
45.000	-.0527	-.2053			.1913	.1311
90.000	-.1276	-.1075	.0586	.0713	.1639	.0811
135.000	-.0219	-.1072			.2423	.1689
180.000	-.1376	-.0669	.1789	.0309	.1122	-.0003

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS25)

BETAL (1) =   .087   ALPHAL(5) =   2.042

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2827	-.3023			-.0031	.0000
270.000	-.2990	-.2647	-.0894	-.2076	-.1562	-.1634
315.000	-.2709	-.3138			-.1035	-.0713

BETAL (1) =   .100   ALPHAL(6) =   4.178

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.3021	.4467	.3433	-.6328	-.3826	-.1060	-.0141	-.0073	-.0278	-.0137	.3096	.5504	-.2310	-.3160	-.4405
45.000		.3695	.2805	-.6517	-.4323	-.1733	.0144	-.0004	-.0635	-.0181	.3328		-.4760	-.4949	
90.000		.2939	.2448	-.6568	-.4730	-.2346	.0346	-.0083	-.1150	.0774	.3083				
135.000		.2592	.2135	-.6490	-.5034	-.0264	.0397	-.0268	-.0922	.1466	.3202				
180.000	1.3021	.2437	.1943	-.6548	-.5288	-.0714	.0226	-.0546	-.0860	.1749	.3328	.5628	-.2916	-.4113	-.4202
225.000		.2692	.1823	-.6968	-.3331	-.3233	-.0045	-.0398	-.0560	.1682	.3311	.5408	.0801	.1272	-.4295
270.000		.3897	.5323	-.4885	-.3846	-.3325	-.0755	-.0570	-.0434	.1227	.3212				
315.000		.4825	.4454	-.6091	-.3599	-.1633	-.0440	-.0296	-.0154	.0409	.3354				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0848	-.2617	.1369	-.0205	.2655	.2127
45.000	-.0321	-.1963			.2419	.1853
90.000	-.1157	-.0818	.1163	.0519	.1177	.0145
135.000	.0148	-.1170			.2542	.1685
180.000	-.1218	-.0435	.2213	.0165	.0872	-.0114
225.000	-.2312	-.3292			.0663	.0000
270.000	-.2773	-.2546	-.0239	-.1731	-.1196	-.1441
315.000	-.2492	-.2919			-.0154	.0057

BETAL (1) =   .171   ALPHAL(7) =   6.321

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2866	.5031	.3815	-.6198	-.3185	-.0806	-.0458	.0118	.0005	-.0047	.3557	.6164	-.1224	-.2879	-.4495
45.000		.3712	.2799	-.6542	-.4087	-.1282	-.0328	-.0050	-.0605	-.0398	.3544		-.4723	-.4824	
90.000		.2507	.2030	-.6737	-.4885	-.3002	-.0232	-.0324	-.1481	.0635	.3257				
135.000		.2081	.1611	-.6615	-.5395	-.0586	.0210	-.0191	-.0784	.1273	.2903	.4945	-.3130	-.4059	-.3853
180.000	1.2866	.1806	.1363	-.6639	-.4452	-.1279	.0135	-.0273	-.0466	.1801	.2896				
225.000		.1937	.0701	-.7338	-.3536	-.2925	-.0143	-.0156	-.0183	.1893	.2732				

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS25)

BETAL (1) =   .171   ALPHAL(7) =   6.321

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3331	.4612	-.5121	-.4121	-.2587	-.0355	-.0088	-.0187	.1436	.3203	.4358	-.0383	.1064	-.4549
315.000		.5038	.4918	-.5821	-.2681	-.1173	-.0516	.0189	.0175	.0529	.3699				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0563	-.2513	.1724	.0443	.3292	.2731
45.000	-.0315	-.1995			.2803	.2307
90.000	-.0981	-.0912	.1590	.0036	.1263	.0182
135.000	.0134	-.1132			.1366	.0510
180.000	-.0912	-.0624	.2659	-.0214	.1198	.0193
225.000	-.2270	-.3430			.0945	.0000
270.000	-.2588	-.2455	-.0043	-.1608	-.0951	-.1225
315.000	-.2418	-.2773			.0302	.0701

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)   (17 OCT 75)

| REFERENCE DATA | | PARAMETRIC DATA |

SREF = 2690.0000 SQ.FT.   XMRP =   976.0000 IN. XT   MACH   =   .900   RN/FT =   2.250
LREF = 1297.0000 INCHES   YMRP =   .0000 IN. YT   ELV-IB =   .000   ELV-OB =   .000
BREF = 1297.0000 INCHES   ZMRP =   400.0000 IN. ZT   RUDDER =   .000   SPDBRK =   .000
SCALE =   .0300 SCALE

ALPHAL(1) =   -6.556   BETAL (1) =   -3.889

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1820	.0913	-.1279	-1.1460	-.5491	-.2655	-.1838	-.0984	-.0594	-.0610	.0715	.2302	-.5211	-.3260	-.5489
45.000		.1159	-.0753	-1.1467	-.8993	-.2002	-.2431	-.1622	-.1156	-.1017	.0490				
90.000		.1961	.0191	-1.1195	-.7067	-.3376	-.3739	-.2861	-.2421	-.2408	-.0263		-.7082	-.7158	
135.000		.3608	.1395	-1.0637	-.1218	-.1376	-.2075	-.1011	-.0312	-.0347	.1172				
180.000	1.1820	.4844	.2326	-1.0331	.0531	-.0482	-.1558	-.0403	.0442	.0644	.2146	.5844	-.2141	-.6149	-.6905
225.000		.4599	.3189	-.9998	.0254	-.0240	-.1669	-.0269	.0610	.0837	.3181				
270.000		.2318	.2146	-.8971	-.2248	-.4561	-.3873	-.0954	-.0328	-.0682	.1275	.8144	.1244	.2144	-.6198
315.000		.0829	-.2179	-1.2152	-.5939	-.4841	-.1723	-.0564	-.0141	-.0134	.1570				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.2050	-.2890	-.0708	-.2594	-.1550	-.2347
45.000	-.2169	-.1640			-.0857	-.1125
90.000	-.2392	-.1750	.0245	-.1282	.1112	-.0064
135.000	-.2089	-.1278			.3192	.1458
180.000	-.2014	-.2248	.4454	-.0868	.2169	.0400
225.000	-.3347	-.2836			.1020	.0000
270.000	-.2954	-.2681	.0058	-.2667	-.2121	-.2125
315.000	-.3256	-.2806			-.2267	-.2330

ALPHAL(1) =   -6.508   BETAL (2) =   -1.855

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1749	.0816	-.1280	-1.1436	-.5342	-.2540	-.1628	-.0740	-.0464	-.0508	.0565	.2656	-.5404	-.4404	-.6201
45.000		.1039	-.0812	-1.1475	-.9133	-.1781	-.2191	-.1260	-.0988	-.0996	.0059				
90.000		.1645	-.0079	-1.1306	-.7958	-.3370	-.3574	-.2553	-.2029	-.1967	-.0002		-.7066	-.7139	
135.000		.3269	.1071	-1.0765	-.1903	-.1766	-.2402	-.1183	-.0538	-.0626	.1007				
180.000	1.1749	.4819	.2279	-1.0346	.0137	-.0856	-.1873	-.0506	.0265	.0399	.1863	.5730	-.2288	-.6431	-.6932
225.000		.4800	.3303	-.9923	.0144	-.0396	-.1816	-.0319	.0502	.0653	.2845				
270.000		.2440	.2191	-.8963	-.2091	-.4386	-.3501	-.0946	-.0249	-.0523	.1570	.7665	.0882	.1290	-.6262
315.000		.0820	-.2177	-1.2167	-.5492	-.4945	-.1804	-.0514	-.0138	-.0131	.1421				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(1) =   -6.508   BETAL (2) =   -1.855

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1803	-.2989	.0213	-.2684	-.0931	-.2078
45.000	-.2215	-.1610			-.0923	-.1476
90.000	-.2388	-.1326	.0017	-.1457	.0574	-.0478
135.000	-.2280	-.1519			.3018	.1325
180.000	-.1345	-.2447	.4488	-.1230	.1943	.0375
225.000	-.3371	-.2599			.0593	.0000
270.000	-.2856	-.2693	.0247	-.2811	-.2074	-.2320
315.000	-.3205	-.2902			-.1948	-.2015

ALPHAL(1) =   -6.473   BETAL (3) =   .202

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1640	.0670	-.1373	-1.1831	-.5276	-.2542	-.1365	-.0596	-.0384	-.0467	.0581	.2886	-.5539	-.4735	-.6643
45.000		.0907	-.1005	-1.1807	-.7672	-.1658	-.1787	-.0995	-.0949	-.1406	-.0552		-.7063	-.7082	
90.000		.1271	-.0489	-1.1737	-.7947	-.3449	-.3178	-.2222	-.1711	-.1641	.0253				
135.000		.2811	.0547	-1.1188	-.2467	-.2297	-.2614	-.1421	-.0767	-.0948	.0704				
180.000	1.1640	.4699	.2108	-1.0626	-.0434	-.1352	-.2050	-.0689	.0087	.0107	.1340	.5517	-.2255	-.6390	-.6826
225.000		.4962	.3373	-1.0011	-.0158	-.0637	-.1787	-.0326	.0414	.0458	.2249				
270.000		.2500	.2127	-.9197	-.2068	-.4405	-.2981	-.0771	-.0151	-.0459	.1671	.7301	.(96	.0830	-.5411
315.000		.0705	-.2364	-1.2506	-.5534	-.4794	-.1586	-.0511	-.0151	-.0236	.1269				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0876	-.3533	.1949	-.3454	.0768	-.0975
45.000	-.2337	-.1612			-.0700	-.1482
90.000	-.2601	-.1042	.0865	-.1397	.0129	-.0820
135.000	-.2465	-.1926			.2615	.1039
180.000	-.1000	-.2037	.3797	-.1277	.1159	-.0083
225.000	-.3081	-.2668			-.0878	.0000
270.000	-.2928	-.2737	-.1153	-.2582	-.2075	-.2024
315.000	-.3095	-.2997			-.1568	-.1511

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER

(RETS26)

ALPHAL(1) = -6.431   BETAL (4) =   2.279

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1587	.0671	-.1359	-1.1735	-.5568	-.2566	-.1337	-.0493	-.0262	-.0373	.0577	.3382	-.5811	-.5205	-.6759
45.000		.0833	-.0980	-1.1743	-.8083	-.1372	-.1537	-.0701	-.0697	-.1496	-.0392		-.7005	-.6917	
90.000		.0980	-.0737	-1.1685	-.8391	-.3399	-.2905	-.1872	-.1318	-.1293	.0627				
135.000		.2415	.0161	-1.1210	-.3217	-.2798	-.2982	-.1657	-.0998	-.1174	.0554	.5484	-.2241	-.6462	-.6577
180.000	1.1587	.4616	.2056	-1.0533	-.0907	-.1760	-.2315	-.0867	-.0124	-.0078	.0846				
225.000		.5184	.3599	-.9680	-.0204	-.0736	-.1849	-.0381	.0413	.0474	.1681	.7285	.0406	.1679	-.5446
270.000		.2643	.2226	-.9117	-.1965	-.4271	-.2654	-.0647	-.0036	-.0266	.1731				
315.000		.0679	-.2237	-1.2344	-.5697	-.4781	-.1614	-.0447	-.0112	-.0204	.1121				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0467	-.3767	.2689	-.3245	.3144	.0737
45.000	-.2277	-.1904			-.0403	-.1363
90.000	-.2760	-.0990	.0699	-.1105	-.0315	-.1097
135.000	-.2769	-.2403			.2293	.0749
180.000	-.1367	-.2449	.3399	-.1822	.0625	-.0532
225.000	-.3207	-.2633			-.1343	.0000
270.000	-.2754	-.2599	-.2065	-.2620	-.2117	-.2156
315.000	-.3116	-.2922			-.1305	-.0932

ALPHAL(1) = -6.400   BETAL (5) =   4.324

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1508	.0635	-.1429	-1.1819	-.5397	-.2713	-.1221	-.0366	-.0207	-.0257	.0421	.3252	-.5765	-.4979	-.6516
45.000		.0740	-.1116	-1.1831	-.5642	-.1255	-.1236	-.0540	-.0439	-.1050	-.0060		-.6559	-.6540	
90.000		.0748	-.1019	-1.1885	-.8516	-.3241	-.2486	-.1535	-.0943	-.0962	.0753				
135.000		.2021	-.0296	-1.1478	-.4078	-.3329	-.3066	-.1845	-.1193	-.1374	.0221	.5596	-.4502	-.5339	-.6268
180.000	1.1508	.4493	.1899	-1.0649	-.1464	-.2273	-.2463	-.1117	-.0307	-.0191	.0082				
225.000		.5385	.3752	-.9319	-.0387	-.0861	-.1762	-.0408	.0336	.0356	.1131	.7540	.0603	.3438	-.5250
270.000		.2804	.2295	-.9070	-.1837	-.4117	-.2463	-.0579	.0013	-.0218	.1597				
315.000		.0689	-.2297	-1.2434	-.5568	-.4680	-.1546	-.0474	-.0095	-.0215	.0928				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0447	-.3509	.2578	-.1755	.3822	.1310
45.000	-.2275	-.2098			.0321	-.1005
90.000	-.2794	-.0984	.1244	-.0928	-.0360	-.1202
135.000	-.2559	-.2460			.1515	.0124
180.000	-.0755	-.3219	.2133	-.2304	-.0619	-.1409

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(1) = -6.400   BETAL (5) = 4.324

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3113	-.2659			-.1477	.0000
270.000	-.2670	-.2598	-.2084	-.2505	-.2072	-.2443
315.000	-.3086	-.2899			-.0862	-.0656

ALPHAL(2) = -4.422   BETAL (1) = -5.990

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2073	.1511	-.0729	-1.1436	-.5353	-.2288	-.1429	-.0823	-.0428	-.0196	.1172	.2170	-.4773	-.1602	-.4785
45.000		.1904	-.0132	-1.1420	-.8475	-.1518	-.1878	-.1372	-.0965	-.0872	.0801		-.6970	-.7031	
90.000		.2762	.0857	-1.1062	-.7217	-.2189	-.2630	-.2135	-.1774	-.1651	.0251				
135.000		.3801	.1592	-1.0643	-.1121	-.0404	-.1049	-.0505	.0228	.0484	.1745				
180.000	1.2073	.4271	.1800	-1.0601	.0641	-.0037	-.0965	-.0301	.0625	.1145	.2532	.5761	-.2161	-.6060	-.6816
225.000		.4128	.2493	-1.0461	.0232	-.0113	-.1218	-.0275	.0652	.1152	.3437				
270.000		.2881	.2862	-.8710	-.4629	-.4057	-.2879	-.0662	-.0032	-.0364	.1099	.8150	.1681	.2417	-.6211
315.000		.1731	-.1114	-1.1783	-.5702	-.4444	-.1061	-.0367	-.0005	.0056	.1646				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1371	-.2770	-.1701	-.3283	-.1671	-.2312
45.000	-.1856	-.1886			.0360	-.0158
90.000	-.2161	-.1465	.0325	-.0174	.2114	.0583
135.000	-.1446	-.0449			.3086	.1349
180.000	-.1977	-.1408	.4245	-.0435	.2003	.0214
225.000	-.3323	-.2914			.1193	.0000
270.000	-.3024	-.2667	.0180	-.2488	-.2093	-.2099
315.000	-.3145	-.2933			-.2308	-.2423

ALPHAL(2) = -4.377   BETAL (2) = -3.948

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2078	.1434	-.0791	-1.1411	-.5497	-.2340	-.1324	-.0750	-.0362	-.0218	.1016	.2017	-.4759	-.2272	-.4967
45.000		.1766	-.0220	-1.1442	-.8738	-.1410	-.1705	-.1099	-.0773	-.0682	.0847		-.7002	-.7029	
90.000		.2434	.0546	-1.1176	-.8080	-.2230	-.2630	-.1945	-.1649	-.1552	.0324				
135.000		.3473	.1294	-1.0819	-.2629	-.0784	-.1466	-.0738	-.0019	.0161	.1566				
180.000	1.2078	.4218	.1780	-1.0686	.0326	-.0393	-.1308	-.0461	.0441	.0862	.2316	.5704	-.2269	-.6234	-.6813
225.000		.4245	.2635	-1.0476	.0241	-.0351	-.1482	-.0385	.0513	.1008	.3199				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS26)

ALPHAL(2) = -4.377 BETAL (2) = -3.948

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6935	.7280	.7290	.7360	.7370
PHI															
270.000		.2951	.2947	-.8750	-.4564	-.4222	-.2892	-.0657	-.0023	-.0196	.1505	.7889	.1152	.2569	-.6133
315.000		.1658	-.1157	-1.1910	-.5634	-.4783	-.1316	-.0450	-.0042	.0025	.1619				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1562	-.2674	-.1334	-.2860	-.1546	-.2201
45.000	-.1960	-.1677			.0018	-.0533
90.000	-.2187	-.1384	.0003	-.0487	.1486	.0188
135.000	-.1909	-.0802			.2985	.1217
180.000	-.1844	-.1939	.4279	-.0745	.2033	.0261
225.000	-.3316	-.2712			.0793	.0000
270.000	-.2803	-.2636	-.0043	-.2509	-.2105	-.2191
315.000	-.3115	-.2750			-.2216	-.2376

ALPHAL(2) = -4.318 BETAL (3) = .145

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1978	.1282	-.0831	-1.1563	-.5700	-.2227	-.1146	-.0471	-.0162	-.0227	.0827	.2942	-.5327	-.4349	-.6125
45.000		.1491	-.0471	-1.1505	-.9124	-.1061	-.1331	-.0644	-.0370	-.0596	.0597				
90.000		.1792	.0024	-1.1447	-.8432	-.2262	-.2399	-.1418	-.1017	-.1045	.0647		-.6957	-.6916	
135.000		.2833	.0673	-1.1034	-.5007	-.1551	-.2117	-.1006	-.0339	-.0404	.1168				
180.000	1.1978	.4098	.1697	-1.0711	-.0651	-.1102	-.1932	-.0698	.0145	.0314	.1651	.5507	-.2796	-.6526	-.6750
225.000		.4582	.2895	-1.0361	-.0046	-.0650	-.1817	-.0463	.0387	.0658	.2333				
270.000		.3185	.3085	-.8785	-.4257	-.4090	-.2549	-.0563	-.0005	-.0109	.1739	.6921	.0372	.0340	-.5955
315.000		.1622	-.1178	-1.1959	-.5412	-.4836	-.1431	-.0444	-.0097	-.0055	.1299				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1019	-.3143	.1055	-.2295	-.0208	-.1220
45.000	-.2037	-.1241			-.0131	-.0889
90.000	-.2366	-.0906	.0335	-.0835	.0446	-.0524
135.000	-.2162	-.1234			.2065	.0718
180.000	-.0891	-.2249	.3782	-.1336	.1265	.0074
225.000	-.2725	-.2673			-.0928	.0000
270.000	-.2865	-.2669	-.1409	-.2599	-.2247	-.2097
315.000	-.3071	-.2954			-.1847	-.1706

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(2) = -4.273   BETAL (4) = 4.256

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1823	.1186	-.0905	-1.1579	-.6238	-.2457	-.0953	-.0338	-.0052	-.0168	.0584	.3090	-.5625	-.4819	-.6267
45.000		.1201	-.0675	-1.1470	-.8203	-.1006	-.0945	-.0326	-.0049	-.0306	.0577				
90.000		.1306	-.0509	-1.1555	-.9078	-.2171	-.1801	-.0901	-.0407	-.0464	.1018		-.6458	-.6455	
135.000		.2132	-.0034	-1.1406	-.6238	-.2335	-.2396	-.1286	-.0711	-.0753	.0780				
180.000	1.1823	.3925	.1552	-1.0879	-.1723	-.1943	-.2323	-.1024	-.0210	.0006	.0534	.5685	-.4472	-.5169	-.5885
225.000		.4953	.3253	-1.0252	-.0564	-.0853	-.1793	-.0546	.0275	.0565	.1382				
270.000		.3506	.3292	-.8860	-.3969	-.3912	-.2075	-.0411	.0083	.0028	.1674	.6977	.0387	.1734	-.5046
315.000		.1706	-.0981	-1.2029	-.5227	-.4869	-.1282	-.0334	-.0029	-.0084	.1004				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0658	-.3044	.1926	-.1141	.2730	.0935
45.000	-.2037	-.1470			.0939	-.0552
90.000	-.2654	-.0835	.0953	-.0602	-.0129	-.1082
135.000	-.2348	-.1584			.1116	-.0041
180.000	-.0424	-.3287	.2834	-.2287	-.0275	-.1136
225.000	-.3112	-.2570			-.1301	.0000
270.000	-.2736	-.2483	-.1810	-.2441	-.1963	-.2238
315.000	-.2983	-.2904			-.1009	-.0699

ALPHAL(2) = -4.258   BETAL (5) = 6.321

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1726	.1098	-.0965	-1.1615	-.6394	-.2504	-.0837	-.0237	-.0051	-.0150	.0489	.3077	-.5517	-.5115	-.5738
45.000		.1102	-.0821	-1.1511	-.5816	-.1085	-.0787	-.0272	-.0071	-.0204	.0608				
90.000		.1109	-.0748	-1.1654	-.9266	-.2229	-.1457	-.0837	-.0407	-.0258	.0904		-.6412	-.6576	
135.000		.1858	-.0368	-1.1504	-.5667	-.2726	-.2529	-.1410	-.0689	-.0727	.0354				
180.000	1.1726	.3870	.1462	-1.0881	-.2103	-.2332	-.2487	-.1252	-.0293	-.0004	-.0039	.4509	-.4906	-.5035	-.6325
225.000		.5149	.3405	-1.0131	-.0783	-.1013	-.1774	-.0624	.0242	.0419	.0977				
270.000		.3622	.3323	-.8823	-.3560	-.3740	-.1921	-.0415	.0161	.0038	.1555	.6193	.0003	.2273	-.5008
315.000		.1702	-.0942	-1.1990	-.5090	-.4655	-.1298	-.0295	-.0035	-.0093	.0893				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0852	-.2336	.1212	-.0170	.2530	.0940
45.000	-.1732	-.1307			.2034	.0489
90.000	-.2076	-.0571	.1364	-.0695	-.0166	-.1130
135.000	-.1997	-.1619			.0558	-.0678
180.000	-.1604	-.2679	.1472	-.2155	-.0760	-.1450

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS26)

ALPHAL(2) = -4.258   BETAL (5) = 6.321

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3205	-.2864			-.1300	.0000
270.000	-.2770	-.2574	-.1935	-.2348	-.2340	-.2656
315.000	-.3060	-.3008			-.0224	.0071

ALPHAL(3) = -2.251   BETAL (1) = -6.036

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2207	.2067	-.0255	-1.1342	-.5155	-.1715	-.1171	-.0612	-.0200	.0073	.1368	.2227	-.4665	-.2330	-.5309
45.000		.2438	.0388	-1.1273	-.8379	-.0861	-.1263	-.0781	-.0443	-.0353	.1131		-.6927	-.6905	
90.000		.3060	.1112	-1.1007	-.7374	-.0993	-.1498	-.1050	-.0720	-.0629	.0894	.2034			
135.000		.3508	.1371	-1.0804	-.3161	-.0101	-.0731	-.0408	.0391	.0797	.2612	.5446	-.2330	-.5953	-.6562
180.000	1.2207	.3635	.1301	-1.0865	-.1269	-.0078	-.0866	-.0374	.0563	.1254	.2612				
225.000		.3720	.1903	-1.0819	-.1031	-.0545	-.1155	-.0339	.0617	.1368	.3388	.7792	.1606	.2475	-.5976
270.000		.3326	.3475	-.8467	-.6018	-.3804	-.2412	-.0650	.0053	-.0074	.1012				
315.000		.2391	-.0152	-1.1638	-.4906	-.4023	-.1086	-.0320	.0050	.0171	.1664				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0976	-.2430	-.1577	-.3067	-.1165	-.1926
45.000	-.1461	-.1939			.1196	.0273
90.000	-.1758	-.0837	.0594	.0305	.2446	.0773
135.000	-.1248	-.0084			.2431	.0923
180.000	-.1776	-.1042	.3670	-.0469	.1654	-.0042
225.000	-.3296	-.3092			.1315	.0000
270.000	-.2893	-.2583	.0178	-.2416	-.1976	-.2022
315.000	-.3160	-.2898			-.2284	-.2317

ALPHAL(3) = -2.199   BETAL (2) = -1.961

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2157	.2034	-.0257	-1.1463	-.6065	-.1718	-.1070	-.0368	-.0148	.0014	.1054	.2744	-.4809	-.3001	-.5116
45.000		.2108	.0049	-1.1359	-.8549	-.0625	-.1128	-.0499	-.0198	-.0102	.1154		-.6829	-.6961	
90.000		.2436	.0529	-1.1262	-.8511	-.1109	-.1541	-.0869	-.0460	-.0459	.0951				
135.000		.3009	.0881	-1.0957	-.6210	-.0614	-.1275	-.0630	.0121	.0378	.1638				
180.000	1.2157	.3559	.1245	-1.0877	-.1318	-.0656	-.1383	-.0568	.0317	.0847	.2149	.5423	-.2741	-.6244	-.6379
225.000		.3961	.2104	-1.0751	-.1059	-.0907	-.1445	-.0445	.0413	.0997	.2794				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS26)

ALPHAL(3) =   -2.199   BETAL (2) =   -1.961

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
270.000		.3520	.3640	-.8465	-.5589	-.3985	-.2201	-.0437	.0140	.0256	.1746	.6797	.0580	.1011	-.5620
315.000		.2463	-.0121	-1.1628	-.4839	-.4409	-.1244	-.0329	-.0017	.0102	.1401				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1458	-.2138	-.0864	-.2066	-.0428	-.1213
45.000	-.1659	-.1299			.0930	.0040
90.000	-.1864	-.0544	.0306	.0059	.1328	.0029
135.000	-.1787	-.0304			.1959	.0572
180.000	-.1512	-.1837	.3970	-.0988	.1940	.0261
225.000	-.3209	-.2621			.0853	.0000
270.000	-.2729	-.2491	-.0099	-.2103	-.1620	-.1899
315.000	-.3121	-.2671			-.1767	-.1957

ALPHAL(3) = -2.182   BETAL (3) =   2.165

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.2094	.1873	-.0337	-1.1495	-.7937	-.1995	-.1015	-.0289	-.0127	-.0046	.0778	.3182	-.5398	-.4585	-.5549
45.000		.1765	-.0287	-1.1390	-.8950	-.0596	-.0868	-.0328	-.0076	-.0034	.0905				
90.000		.1892	.0004	-1.1479	-.8668	-.1164	-.1347	-.0614	-.0219	-.0126	.1059		-.6617	-.6718	
135.000		.2446	.0306	-1.1136	-.7819	-.1255	-.1711	-.0838	-.0145	-.0099	.1240				
180.000	1.2094	.3491	.1186	-1.0869	-.2766	-.1358	-.1799	-.0742	.0066	.0389	.1310	.5384	-.2975	-.6191	-.5800
225.000		.4296	.2426	-1.0584	-.1469	-.1152	-.1591	-.0479	.0351	.0705	.1722				
270.000		.3801	.3802	-.8497	-.5773	-.4099	-.1792	-.0351	.0127	.0251	.1772	.5798	-.0282	.0635	-.4663
315.000		.2558	-.0019	-1.1539	-.4774	-.4581	-.1278	-.0316	.0020	.0012	.1115				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1265	-.2272	.0780	-.1166	.1408	.0214
45.000	-.1575	-.1443			.1077	-.0152
90.000	-.2190	-.0583	.0773	-.0260	.0399	-.0603
135.000	-.2131	-.0910			.0911	-.0068
180.000	-.0720	-.2607	.3809	-.1806	.1223	-.0129
225.000	-.3010	-.2436			-.1204	.0000
270.000	-.2656	-.2413	-.1844	-.2345	-.1898	-.2008
315.000	-.2957	-.2702			-.1362	-.0946

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(3) =   -2.159   BETAL (4) =   6.256

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1951	.1724	-.0438	-1.1442	-.7736	-.2361	-.0814	-.0205	.0015	.0009	.0819	.3737	-.5498	-.5409	-.5557
45.000		.1484	-.0550	-1.1458	-.8130	-.0673	-.0733	-.0189	.0011	.0009	.1037				
90.000		.1492	-.0430	-1.1489	-.9045	-.1084	-.1175	-.0494	-.0193	-.0098	.1041		-.6496	-.6529	
135.000		.1928	-.0252	-1.1286	-.8054	-.1799	-.1984	-.0979	-.0205	-.0102	.0853				
180.000	1.1951	.3337	.1093	-1.0841	-.3285	-.2004	-.2184	-.1099	-.0136	.0258	.0336	.4388	-.4284	-.5299	-.6001
225.000		.4622	.2770	-1.0340	-.1217	-.1255	-.1672	-.0571	.0201	.0550	.1033				
270.000		.4097	.4052	-.8419	-.5265	-.4068	-.1437	-.0309	.0009	.0282	.1478	.5147	-.0532	.1111	-.5017
315.000		.2662	.0208	-1.1422	-.4604	-.4575	-.1164	-.0193	.0044	.0025	.1156				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1052	-.1640	.1894	.0248	.2554	.1102
45.000	-.1369	-.0953			.1843	.0356
90.000	-.1743	-.0593	.1629	-.0789	.0299	-.0816
135.000	-.1796	-.0980			.0556	-.0570
180.000	-.1280	-.2464	.1829	-.2067	-.0685	-.1388
225.000	-.3040	-.2804			-.1104	.0000
270.000	-.2733	-.2454	-.1495	-.2205	-.2180	-.2531
315.000	-.3055	-.2941			.0295	.0569

ALPHAL(4) =   -.119   BETAL (1) =   -6.055

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2212	.2722	.0309	-1.1286	-.8578	-.0871	-.0873	-.0499	-.0083	.0224	.1493	.2840	-.4844	-.2423	-.4902
45.000		.2938	.0757	-1.1181	-.8064	-.0346	-.0730	-.0395	-.0102	.0097	.1505				
90.000		.3167	.1186	-1.1042	-.7070	-.0220	-.0638	-.0380	-.0010	.0343	.1417		-.6866	-.6816	
135.000		.3112	.1043	-1.0893	-.5444	.0077	-.0495	-.0341	.0450	.1083	.2126				
180.000	1.2212	.3016	.0746	-1.0984	-.3007	-.0045	-.0646	-.0395	.0603	.1459	.2475	.4990	-.2303	-.5575	-.6016
225.000		.3228	.1163	-1.1079	-.2337	-.1001	-.0649	-.0272	.0646	.1535	.3081				
270.000		.3472	.3650	-.8144	-.5970	-.3339	-.0985	-.0318	.0289	.0715	.1762	.6757	.0705	.2368	-.4419
315.000		.2989	.0633	-1.1312	-.5387	-.3035	-.0935	-.0326	.0074	.0304	.1649				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1611	-.2659	-.1152	-.2636	-.0153	-.1028
45.000	-.1236	-.1886			.2199	.0868
90.000	-.1383	-.0244	.1015	.0668	.2553	.0857
135.000	-.0934	.0045			.1936	.0525
180.000	-.1341	-.0907	.3510	-.0550	.1242	-.0489

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(4) =   -.119   BETAL (1) =   -6.055

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.3105	-.2960			.1350	.0000
270.000	-.3078	-.2465	.0317	-.2332	-.1935	-.1961
315.000	-.3238	-.2670			-.2220	-.2156

ALPHAL(4) =   -.103   BETAL (2) =   -4.019

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2207	.2656	.0279	-1.1333	-.8818	-.1071	-.0915	-.0494	-.0050	.0126	.1339	.3054	-.5066	-.2697	-.4810
45.000		.2714	.0590	-1.1306	-.8253	-.0314	-.0734	-.0421	-.0034	.0134	.1439		-.6784	-.6958	
90.000		.2861	.0865	-1.1197	-.7597	-.0303	-.0718	-.0467	-.0042	.0276	.1266				
135.000		.2904	.0810	-1.0992	-.7276	-.0116	-.0691	-.0475	.0326	.0856	.1831				
180.000	1.2207	.2954	.0706	-1.1038	-.3095	-.0303	-.0880	-.0529	.0453	.1210	.2177	.4907	-.2999	-.5985	-.6109
225.000		.3326	.1248	-1.1110	-.2720	-.1185	-.0803	-.0417	.0464	.1289	.2685				
270.000		.3573	.3737	-.8123	-.5875	-.3564	-.1004	-.0421	.0199	.0742	.2023	.5818	.0223	.1208	-.4170
315.000		.3024	.0663	-1.1374	-.5585	-.3545	-.1004	-.0378	.0057	.0254	.1580				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1882	-.2516	-.0850	-.2051	.0321	-.0765
45.000	-.1386	-.1623			.1966	.0696
90.000	-.1444	-.0226	.0746	.0464	.1974	.0460
135.000	-.1180	-.0020			.1607	.0170
180.000	-.1436	-.1188	.3585	-.0807	.1418	-.0238
225.000	-.3127	-.3116			.1001	.0000
270.000	-.2936	-.2493	.0116	-.2124	-.1642	-.1892
315.000	-.3119	-.2612			-.1989	-.1842

ALPHAL(4) =   -.097   BETAL (3) =   .072

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2178	.2490	.0205	-1.1294	-.8624	-.1365	-.0859	-.0406	-.0041	.0056	.1187	.3645	-.4980	-.3734	-.5092
45.000		.2266	.0200	-1.1240	-.8442	-.0177	-.0725	-.0333	.0001	.0155	.1328		-.6878	-.6831	
90.000		.2351	.0393	-1.1198	-.8232	-.0378	-.0859	-.0440	-.0022	.0209	.1263				
135.000		.2517	.0520	-1.1042	-.8461	-.0420	-.1094	-.0540	.0148	.0431	.1478				
180.000	1.2178	.2941	.0801	-1.0985	-.6252	-.0788	-.1252	-.0644	.0194	.0707	.1596	.4702	-.3499	-.5902	-.6230
225.000		.3609	.1557	-1.0955	-.4157	-.1555	-.0986	-.0598	.0251	.0912	.1971				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(4) =   -.097   BETAL (3) =   .072

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6385	.7280	.7290	.7360	.7370
PHI															
270.000		.3841	.4036	-.8065	-.5904	-.4009	-.0936	-.0679	-.0025	.0594	.2174	.5007	-.0972	.0717	-.5435
315.000		.3150	.0786	-1.1312	-.5653	-.4163	-.1005	-.0256	.0090	.0258	.1585				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1535	-.2171	.0380	-.1035	.1277	.0054
45.000	-.1427	-.1430			.1815	.0442
90.000	-.1547	-.0210	.0907	.0104	.1280	-.0085
135.000	-.1707	-.0271			.0957	-.0197
180.000	-.1403	-.1574	.3180	-.1204	.1169	-.0331
225.000	-.2425	-.2714			.0261	.0000
270.000	-.2813	-.2528	-.0450	-.2050	-.1754	-.1658
315.000	-.3155	-.2767			-.1243	-.1008

ALPHAL(4) =   -.090   BETAL (4) =   4.175

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2075	.2385	.0159	-1.1240	-.8416	-.1567	-.0697	-.0359	-.0030	.0035	.1226	.4145	-.5135	-.4819	-.5495
45.000		.1920	-.0164	-1.1340	-.8776	-.0247	-.0620	-.0306	-.0015	.0104	.1321				
90.000		.1862	-.0068	-1.1213	-.8776	-.0391	-.0804	-.0405	.0012	.0253	.1065		-.6544	-.6665	
135.000		.2078	.0036	-1.1075	-.8254	-.0837	-.1340	-.0647	.0055	.0299	.1142				
180.000	1.2075	.2808	.0732	-1.0890	-.7134	-.1400	-.1643	-.0861	.0013	.0493	.0936	.4353	-.3525	-.5766	-.5916
225.000		.3865	.1870	-1.0712	-.4316	-.1578	-.1099	-.0773	.0173	.0756	.1359				
270.000		.4165	.4315	-.8129	-.5988	-.4105	-.0804	-.1015	-.0174	.0459	.2011	.4422	-.1487	.1604	-.5167
315.000		.3346	.1005	-1.1109	-.5610	-.4413	-.0766	-.0168	.0196	.0245	.1610				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1237	-.1735	.1418	-.0209	.2021	.0800
45.000	-.1612	-.0753			.1665	.0419
90.000	-.1623	-.0450	.1468	-.0485	.0908	-.0327
135.000	-.1886	-.0556			.0300	-.0669
180.000	-.1390	-.2084	.2623	-.1798	.0185	-.0967
225.000	-.3300	-.2558			-.0792	.0000
270.000	-.3099	-.2425	-.1445	-.2036	-.1600	-.2099
315.000	-.3422	-.2725			-.0112	-.0008

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ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(4) =   -.087   BETAL (5) =   6.223

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.1994	.2242	.0050	-1.1447	-.8487	-.1709	-.0617	-.0328	-.0096	-.0035	.1198	.4370	-.5083	-.4921	-.5395
45.000		.1682	-.0441	-1.1556	-.9004	-.0330	-.0652	-.0347	-.0050	.0039	.1202		-.6434	-.6754	
90.000		.1608	-.0336	-1.1444	-.8483	-.0490	-.0756	-.0420	-.0031	.0204	.0882				
135.000		.1836	-.0247	-1.1273	-.8422	-.1100	-.1430	-.0729	-.0008	.0254	.0940				
180.000	1.1994	.2702	.0666	-1.1052	-.6812	-.1732	-.1827	-.1038	-.0085	.0435	.0463	.3725	-.3797	-.5365	-.5789
225.000		.3943	.1943	-1.0797	-.3032	-.1629	-.1191	-.0922	-.0011	.0617	.1033				
270.000		.4264	.4316	-.8319	-.6069	-.4106	-.0841	-.1320	-.0300	.0363	.1895	.4366	-.1883	.2579	-.5519
315.000		.3406	.1034	-1.1231	-.5550	-.4371	-.0582	-.0150	.0131	.0116	.1633				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1188	-.1400	.2336	.0356	.2644	.1250
45.000	-.1709	-.0507			.1615	.0229
90.000	-.1651	-.0484	.1962	-.0599	.1173	-.0276
135.000	-.1765	-.0610			.0233	-.0804
180.000	-.1313	-.1986	.1989	-.1913	-.0530	-.1329
225.000	-.3286	-.2727			-.0799	.0000
270.000	-.3157	-.2343	-.1254	-.2124	-.2074	-.2483
315.000	-.3278	-.2659			.0968	.0928

ALPHAL(5) =   2.036   BETAL (1) =   -6.043

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI
.000	1.2189	.3313	.0783	-1.1173	-.8251	-.0640	-.0565	-.0392	.0043	.0343	.1582	.3394	-.4931	-.3161	-.4826
45.000		.3309	.1088	-1.1122	-.7346	-.0085	-.0365	-.0146	.0204	.0439	.1838		-.6740	-.6853	
90.000		.3116	.1126	-1.1061	-.7239	-.0009	-.0273	-.0246	.0239	.0826	.1869				
135.000		.2672	.0651	-1.1003	-.5217	.0056	-.0396	-.0411	.0462	.1240	.2134				
180.000	1.2189	.2424	.0199	-1.1071	-.3826	-.0092	-.0500	-.0377	.0596	.1539	.2264	.4557	-.2983	-.5390	-.5614
225.000		.2695	.0389	-1.1413	-.3495	-.1617	-.0384	-.0257	.0638	.1639	.2716				
270.000		.3429	.3575	-.8057	-.5141	-.3274	-.0523	-.0211	.0431	.0918	.1647	.5369	-.0266	.0644	-.4888
315.000		.3452	.1358	-1.1045	-.6183	-.2158	-.0773	-.0238	.0209	.0447	.1620				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI
.000	-.1398	-.2212	-.0991	-.2157	.0387	-.0629
45.000	-.1182	-.1989			.3034	.1400
90.000	-.1128	-.0006	.1441	.0749	.2704	.0966
135.000	-.0782	.0092			.1608	.0297
180.000	-.0954	-.0581	.2234	-.0479	.0670	-.0937

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(5) =   2.036   BETAL (1) = -6.043

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2707	-.3730			.1543	.0000
270.000	-.3076	-.2427	.0418	-.2115	-.1598	-.1833
315.000	-.3160	-.2682			-.1821	-.1895

ALPHAL(5) =   2.043   BETAL (2) = -1.987

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2130	.3171	.0754	-1.1173	-.8248	-.0857	-.0734	-.0371	.0029	.0250	.1561	.3915	-.4840	-.3672	-.4883
45.000		.2809	.0623	-1.1150	-.7804	-.0116	-.0533	-.0279	.0026	.0338	.1683		-.6531	-.6659	
90.000		.2538	.0600	-1.1216	-.8199	-.0067	-.0603	-.0464	.0072	.0584	.1569				
135.000		.2380	.0364	-1.1019	-.5140	-.0059	-.0726	-.0545	.0281	.0898	.1695	.4259	-.2790	-.5320	-.5718
180.000	1.2130	.2372	.0291	-1.1114	-.3293	-.0648	-.0868	-.0576	.0338	.1147	.1787				
225.000		.2847	.0619	-1.1349	-.3365	-.2320	-.0683	-.0552	.0384	.1247	.2212	.5273	-.1053	.1570	-.5107
270.000		.3673	.3890	-.7899	-.4916	-.3985	-.0776	-.0591	.0032	.0771	.2281				
315.000		.3639	.1500	-1.0996	-.5714	-.3196	-.0853	-.0206	.0173	.0384	.1845				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1343	-.2064	.0207	-.0934	.1025	-.0090
45.000	-.1347	-.1195			.2460	.0994
90.000	-.1285	-.0112	.1264	.0342	.1646	.0219
135.000	-.1203	-.0158			.1021	-.0251
180.000	-.1332	-.1023	.2341	-.0973	.0674	-.0766
225.000	-.2872	-.3097			.0678	.0000
270.000	-.2853	-.2453	.0173	-.1891	-.1332	-.1514
315.000	-.3135	-.2735			-.1297	-.1245

ALPHAL(5) =   2.028   BETAL (3) =   2.123

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2120	.3043	.0685	-1.1045	-.8133	-.1109	-.0697	-.0383	.0004	.0172	.1536	.4798	-.4800	-.4976	-.5223
45.000		.2336	.0277	-1.1209	-.8425	-.0092	-.0636	-.0356	-.0050	.0203	.1555		-.6378	-.6523	
90.000		.2071	.0201	-1.1133	-.8482	.0090	-.0689	-.0475	.0054	.0416	.1280				
135.000		.2133	.0151	-1.1000	-.8292	-.0168	-.0912	-.0567	.0264	.0615	.1303	.4179	-.3168	-.5446	-.5650
180.000	1.2120	.2390	.0396	-1.0973	-.5589	-.1121	-.1119	-.0716	.0164	.0775	.1258				
225.000		.3127	.0926	-1.1128	-.3829	-.2705	-.0870	-.0758	.0275	.0983	.1574				

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(5) =   2.028   BETAL (3) =   2.123

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
270.000		.4033	.4216	-.7785	-.5133	-.4438	-.0873	-.0961	-.0187	.0617	.2268	.4586	-.1735	.2485	-.4908
315.000		.3891	.1727	-1.0844	-.5746	-.3554	-.0751	-.0172	.0206	.0324	.1913				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1259	-.1876	.1462	-.0364	.2197	.0878
45.000	-.1586	-.0711			.1840	.0541
90.000	-.1502	-.0258	.1539	.0000	.1081	-.0237
135.000	-.1675	-.0439			.0372	-.0678
180.000	-.1513	-.1490	.2530	-.1344	.0537	-.0709
225.000	-.3289	-.2543			-.0459	.0000
270.000	-.3183	-.2482	-.1255	-.1948	-.1398	-.1714
315.000	-.3282	-.2808			-.0513	-.0297

ALPHAL(5) =   2.019   BETAL (4) =   6.206

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI														
.000	1.1990	.2860	.0537	-1.1079	-.7990	-.1351	-.0610	-.0415	-.0047	.0019	.1463	.5147	-.4802	-.5091	-.5421
45.000		.1870	-.0289	-1.1305	-.8713	-.0378	-.0663	-.0480	-.0166	.0061	.1498		-.6308	-.6466	
90.000		.1685	-.0242	-1.1252	-.8452	-.0155	-.0629	-.0407	.0037	.0274	.1105				
135.000		.1797	-.0216	-1.1117	-.8702	-.0522	-.1073	-.0529	.0164	.0526	.1132				
180.000	1.1990	.2215	.0357	-1.1056	-.6105	-.1646	-.1486	-.0843	.0103	.0693	.0758	.3711	-.3824	-.5201	-.5548
225.000		.3279	.1209	-1.1037	-.3369	-.2846	-.1061	-.0786	.0122	.0812	.1216				
270.000		.4281	.4542	-.7896	-.5231	-.4690	-.1092	-.1318	-.0427	.0480	.2111	.4458	-.2065	.3408	-.5181
315.000		.4120	.1977	-1.0753	-.5473	-.3702	-.0560	-.0124	.0164	.0274	.1832				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1137	-.1431	.3174	.0609	.3665	.1901
45.000	-.1712	-.0358			.1501	.0139
90.000	-.1458	-.0218	.2057	-.0320	.0828	-.0530
135.000	-.1522	-.0480			.0058	-.0880
180.000	-.1181	-.1799	.1938	-.1809	-.0496	-.1331
225.000	-.3286	-.2760			-.0573	.0000
270.000	-.3365	-.2273	-.0769	-.2043	-.1831	-.2534
315.000	-.3339	-.2680			.1744	.1168

IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(6) =   4.180   BETAL (1) =   -6.024

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2005	.3926	.1343	-1.0877	-.7100	-.0376	-.0173	-.0085	.0266	.0548	.1846	.3914	-.4809	-.3538	-.4787
45.000		.3623	.1316	-1.0777	-.6700	-.0009	-.0124	-.0043	.0324	.0658	.2112		-.6560	-.6738	
90.000		.2906	.1040	-1.0957	-.6794	-.0379	-.0460	-.0567	-.0005	.0864	.2154				
135.000		.2121	.0270	-1.1031	-.4382	-.0176	-.0460	-.0487	.0354	.1378	.2188				
180.000	1.2005	.1860	-.0255	-1.0906	-.4170	-.0323	-.0449	-.0395	.0635	.1656	.2169	.4444	-.3055	-.5111	-.5215
225.000		.2075	-.0435	-1.1506	-.3940	-.2705	-.0322	-.0208	.0734	.1812	.2565				
270.000		.3140	.3232	-.8067	-.5133	-.3438	-.0781	-.0494	.0399	.1107	.1945	.5105	-.0674	.0581	-.5203
315.000		.3845	.2037	-1.0638	-.6998	-.1553	-.0380	-.0212	.0297	.0658	.1925				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1232	-.2038	-.0021	-.1430	.1189	-.0104
45.000	-.0905	-.1478			.3439	.1670
90.000	-.0989	-.0025	.2024	.0577	.2483	.0917
135.000	-.0755	.0020			.1374	.0016
180.000	-.0959	-.0494	.1963	-.0626	.0353	-.1119
225.000	-.2518	-.3770			.1044	.0000
270.000	-.3014	-.2318	.0324	-.2001	-.1455	-.1687
315.000	-.3108	-.2473			-.1677	-.1660

ALPHAL(6) =   4.185   BETAL (2) =   -4.000

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.2005	.3881	.1278	-1.0986	-.7138	-.0426	-.0176	-.0118	.0223	.0513	.1827	.4188	-.4730	-.3917	-.4895
45.000		.3342	.1111	-1.0932	-.7134	-.0029	-.0256	-.0119	.0192	.0571	.2033		-.6426	-.6528	
90.000		.2572	.0734	-1.1075	-.7873	-.0354	-.0667	-.0752	-.0157	.0769	.2014				
135.000		.2002	.0146	-1.1121	-.4121	-.0097	-.0625	-.0591	.0361	.1235	.2010				
180.000	1.2005	.1814	-.0235	-1.1076	-.3716	-.0483	-.0633	-.0510	.0559	.1540	.2075	.4323	-.2842	-.5022	-.5415
225.000		.2098	-.0389	-1.1599	-.3644	-.2944	-.0517	-.0383	.0609	.1698	.2494				
270.000		.3265	.3364	-.8074	-.4893	-.3788	-.0913	-.0644	.0277	.1065	.2090	.5152	-.0722	.0930	-.5053
315.000		.3969	.2115	-1.0701	-.6835	-.1596	-.0464	-.0226	.0269	.0623	.1964				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1176	-.2041	.0539	-.0951	.1473	.0231
45.000	-.1095	-.1093			.2975	.1382
90.000	-.1111	.0011	.2030	.0332	.1873	.0469
135.000	-.0884	-.0034			.0975	-.0331
180.000	-.1032	-.0706	.1999	-.0801	.0454	-.0993

ALPHAL(6) =   4.185   BETAL (2) =   -4.000

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2591	-.3558			.1044	.0000
270.000	-.2845	-.2373	.0386	-.1927	-.1338	-.1589
315.000	-.3057	-.2649			-.1373	-.1406

ALPHAL(6) =   4.167   BETAL (3) =   .063

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1959	.3674	.1129	-1.0999	-.7504	-.0617	-.0356	-.0300	.0034	.0164	.1645	.4686	-.4706	-.4841	-.5256
45.000		.2710	.0587	-1.1207	-.7808	-.0161	-.0542	-.0370	-.0143	.0161	.1733				
90.000		.2070	.0209	-1.1249	-.8523	-.0249	-.0842	-.0849	-.0201	.0467	.1595		-.6372	-.6546	
135.000		.1823	-.0064	-1.1150	-.4559	-.0097	-.0823	-.0661	.0230	.0808	.1473				
180.000	1.1959	.1742	-.0156	-1.1203	-.3772	-.1087	-.1004	-.0704	.0306	.1122	.1580	.4027	-.2983	-.5194	-.5588
225.000		.2213	-.0183	-1.1644	-.3681	-.3518	-.0850	-.0638	.0398	.1309	.1981				
270.000		.3512	.3657	-.7976	-.4588	-.4333	-.1177	-.0865	.0161	.0835	.2279	.4940	-.1074	.1224	-.4950
315.000		.4210	.2287	-1.0724	-.6465	-.2062	-.0550	-.0289	.0172	.0415	.1949				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1059	-.1971	.1640	-.0288	.2485	.1006
45.000	-.1426	-.0684			.2226	.0706
90.000	-.1357	-.0114	.1997	-.0054	.1006	-.0303
135.000	-.1181	-.0399			.0802	-.0371
180.000	-.1253	-.1067	.1905	-.1122	.0336	-.0998
225.000	-.2708	-.3081			.0525	.0000
270.000	-.2711	-.2651	-.0269	-.2059	-.1196	-.1465
315.000	-.3076	-.2834			-.0765	-.0593

ALPHAL(6) =   4.141   BETAL (4) =   4.176

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1850	.3527	.0989	-1.0999	-.7405	-.0933	-.0555	-.0501	-.0110	.0001	.449	.5126	-.4303	-.5218	-.5246
45.000		.2106	-.0072	-1.1314	-.8475	-.0424	-.0862	-.0777	-.0406	-.0117	.1537				
90.000		.1570	-.0234	-1.1383	-.7450	-.0140	-.0824	-.0739	-.0068	.0338	.1312		-.6275	-.6369	
135.000		.1586	-.0310	-1.1077	-.5827	-.0017	-.0801	-.0586	.0265	.0601	.1194				
180.000	1.1850	.1678	-.0141	-1.1199	-.4480	-.1518	-.1138	-.0727	.0296	.0903	.1129	.4165	-.3807	-.5534	-.5569
225.000		.2325	.0101	-1.1510	-.3763	-.3733	-.1023	-.0624	.0387	.1117	.1426				

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER   (RETS26)

ALPHAL(6) =   4.141   BETAL (4) =   4.176

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
270.000		.3843	.3967	-.7856	-.4778	-.4539	-.1192	-.0869	.0128	.0767	.2078	.4319	-.1543	.1723	-.5030
315.000		.4525	.2553	-1.0573	-.5875	-.1987	-.0459	-.0225	.0246	.0340	.1805				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0686	-.2040	.3160	.0103	.3705	.1890
45.000	-.1694	-.0578			.1460	.0181
90.000	-.1490	-.0343	.2313	-.0511	.0446	-.0848
135.000	-.1437	-.0464			.0357	-.0738
180.000	-.1104	-.1706	.2431	-.1757	.0219	-.0975
225.000	-.3183	-.2697			-.0238	.0000
270.000	-.3214	-.2238	-.0181	-.1615	-.1294	-.1974
315.000	-.3259	-.2481			.0868	.0528

ALPHAL(6) =   4.128   BETAL (5) =   6.234

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1748	.3371	.0858	-1.1098	-.7243	-.0961	-.0676	-.0656	-.0277	-.0207	.1282	.5666	-.5332	-.5436	-.5431
45.000		.1784	-.0361	-1.1522	-.8816	-.0683	-.1016	-.0944	-.0609	-.0276	.1443				
90.000		.1335	-.0473	-1.1518	-.4953	-.0177	-.0873	-.0728	-.0135	.0213	.1128		-.6146	-.6406	
135.000		.1389	-.0453	-1.1309	-.5342	-.0230	-.0946	-.0528	.0163	.0532	.1067				
180.000	1.1748	.1536	-.0183	-1.1343	-.4727	-.1805	-.1317	-.0720	.0186	.0829	.0848	.4006	-.4116	-.5562	-.5666
225.000		.2376	.0210	-1.1602	-.3597	-.3780	-.1139	-.0701	.0294	.0998	.1274				
270.000		.3955	.4103	-.7991	-.4868	-.4586	-.1135	-.0886	.0032	.0679	.2041	.4223	-.1755	.1897	-.5231
315.000		.4644	.2675	-1.0652	-.5480	-.1893	-.0390	-.0208	.0101	.0269	.1737				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0374	-.2148	.4282	.0322	.4662	.2360
45.000	-.1596	-.0476			.1308	.0102
90.000	-.1422	-.0282	.2729	-.0539	.0294	-.0912
135.000	-.1449	-.0662			.0263	-.0854
180.000	-.0825	-.1878	.2006	-.1811	-.0259	-.1217
225.000	-.3087	-.3129			-.0374	.0000
270.000	-.3258	-.2275	-.0012	-.1869	-.1580	-.2385
315.000	-.3258	-.2632			.1765	.1068

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(7) =   6.343   BETAL (1) =   -3.952

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1711	.4407	.1708	-1.0841	-.6273	-.0433	-.0074	.0003	.0288	.0563	.1992	.4709	-.4763	-.4694	-.5062
45.000		.3474	.1258	-1.0983	-.6706	-.0372	-.0293	-.0198	.0043	.0479	.2087				
90.000		.2159	.0401	-1.1218	-.4884	-.1416	-.1416	-.1528	-.0877	.0440	.1992		-.6280	-.6136	
135.000		.1376	-.0352	-1.0713	-.4478	-.0728	-.0835	-.0716	.0192	.1201	.1809				
180.000	1.1711	.1222	-.0729	-1.1168	-.4216	-.0898	-.0704	-.0474	.0463	.1461	.1771	.4191	-.3135	-.5031	-.5204
225.000		.1268	-.1382	-1.1946	-.3440	-.3670	-.0539	-.0352	.0647	.1691	.2220				
270.000		.2676	.2653	-.8451	-.4416	-.3451	-.0616	-.0482	.0433	.1233	.1847	.4644	-.1073	.0074	-.4836
315.000		.4249	.2653	-1.0500	-.5898	-.1362	-.0047	.0012	.0410	.0742	.2171				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.1046	-.2037	.1549	-.0470	.2494	.0894
45.000	-.0977	-.1138			.3350	.1543
90.000	-.1234	-.0216	.2509	-.0046	.1837	.0274
135.000	-.0889	-.0386			.0515	-.0773
180.000	-.1138	-.1040	.2157	-.1109	.0523	-.0845
225.000	-.2355	-.3677			.0920	.0000
270.000	-.2899	-.2345	.0386	-.1882	-.1105	-.1470
315.000	-.3133	-.2575			-.1006	-.1024

ALPHAL(7) =   6.327   BETAL (2) =   -1.923

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1705	.4368	.1600	-1.0908	-.6421	-.0589	-.0194	-.0125	.0215	.0386	.1913	.4959	-.4438	-.4720	-.5091
45.000		.3106	.0863	-1.1167	-.7095	-.0573	-.0557	-.0437	-.0156	.0232	.1898				
90.000		.1871	.0128	-1.1441	-.4686	-.1476	-.1427	-.1487	-.0723	.0443	.1733		-.6069	-.5980	
135.000		.1298	-.0436	-1.1228	-.4408	-.0688	-.0913	-.0704	.0147	.0993	.1529				
180.000	1.1705	.1182	-.0730	-1.1334	-.4263	-.1091	-.0809	-.0542	.0363	.1312	.1629	.3943	-.3046	-.4917	-.5149
225.000		.1256	-.1356	-1.2043	-.3391	-.3790	-.0677	-.0480	.0447	.1487	.1971				
270.000		.2847	.2715	-.8486	-.3969	-.3554	-.0754	-.0623	.0332	.1084	.2205	.4453	-.1338	.0901	-.4902
315.000		.4438	.2735	-1.0537	-.5393	-.1535	-.0117	.0010	.0328	.0635	.2230				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0742	-.2089	.1976	-.0300	.2828	.1181
45.000	-.1303	-.0924			.2790	.1112
90.000	-.1237	-.0209	.2365	-.0292	.1231	-.0169
135.000	-.0978	-.0365			.0321	-.0867
180.000	-.1191	-.1118	.1991	-.1098	.0414	-.0913

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(7) =   6.327   BETAL (2) =   -1.923

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
225.000	-.2492	-.3473			.0676	.0000
270.000	-.2910	-.2454	.0390	-.1719	-.1037	-.1378
315.000	-.3032	-.2663			-.0612	-.0729

ALPHAL(7) =   6.300   BETAL (3) =   .124

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1674	.4278	.1559	-1.0829	-.6329	-.0622	-.0286	-.0251	.0025	.0254	.1882	.5147	-.4263	-.4945	-.5324
45.000		.2817	.0558	-1.1114	-.7539	-.0614	-.0727	-.0754	-.0439	.0013	.1756		-.6164	-.6004	
90.000		.1647	-.0096	-1.1410	-.6924	-.1225	-.1468	-.1518	-.0650	.0418	.1584				
135.000		.1335	-.0423	-1.1274	-.4095	-.0481	-.0796	-.0674	.0166	.0823	.1259	.3489	-.3230	-.4904	-.5324
180.000	1.1674	.1205	-.0638	-1.1255	-.4145	-.1376	-.0831	-.0497	.0342	.1163	.1332				
225.000		.1347	-.1265	-1.1900	-.3602	-.3997	-.0723	-.0524	.0430	.1267	.1634	.4349	-.1661	.1749	-.4757
270.000		.3047	.2974	-.8255	-.4164	-.3807	-.0915	-.0762	.0197	.0965	.2191				
315.000		.4625	.2859	-1.0387	-.5252	-.1492	-.0159	-.0048	.0369	.0548	.2340				

X/LS	.8102	.8661	.9120	.9130	.9344	.9565
PHI						
.000	-.0527	-.2443	.2794	-.0104	.3498	.1709
45.000	-.1515	-.0849			.2367	.0863
90.000	-.1411	-.0302	.2433	-.0404	.0805	-.0549
135.000	-.1095	-.0480			.0432	-.0750
180.000	-.1365	-.1156	.1895	-.1149	.0266	-.1075
225.000	-.2689	-.3231			.0436	.0000
270.000	-.2837	-.2502	-.0038	-.1660	-.1011	-.1358
315.000	-.3035	-.2718			-.0118	-.0122

ALPHAL(7) =   6.271   BETAL (4) =   2.178

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
PHI															
.000	1.1629	.4150	.1475	-1.0891	-.6205	-.0755	-.0363	-.0386	-.0072	.0088	.1721	.5512	-.4076	-.4795	-.5364
45.000		.2431	.0217	-1.1337	-.7901	-.0755	-.0951	-.0912	-.0617	-.0203	.1610		-.6064	-.5968	
90.000		.1394	-.0310	-1.1457	-.6922	-.1089	-.1424	-.1331	-.0455	.0428	.1499				
135.000		.1282	-.0503	-1.1244	-.4030	-.0406	-.0816	-.0628	.0206	.0692	.1060	.3193	-.3303	-.5091	-.5460
180.000	1.1629	.1186	-.0591	-1.1301	-.4140	-.1551	-.0863	-.0544	.0371	.1070	.1106				
225.000		.1444	-.1076	-1.1859	-.3776	-.4026	-.0778	-.0571	.0394	.1209	.1438				

DATE 21 OCT 75   IA81A - PRESSURE SOURCE DATA TABULATION

ARC11-019 IA81 LVAP(ELHL SEALED)   SRM BOOSTER   (RETS26)

ALPHAL(7) = 6.271   BETAL (4) = 2.178

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
270:000		.3221	.3090	-.8193	-.4375	-.3844	-.1009	-.0939	.0130	.0908	.2290	.4209	-.2011	.3424	-.4734
315.000		.4801	.3020	-1.0341	-.5076	-.1520	-.0140	-.0033	.0355	.0522	.2382				

X/LS PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0307	-.2045	.3790	-.0185	.4499	.2257
45.000	-.1730	-.0781			.2015	.0694
90.000	-.1480	-.0474	.2679	-.0573	.0375	-.0853
135.000	-.1281	-.0591			.0206	-.0770
180.000	-.1538	-.1413	.1896	-.1433	.0145	-.1045
225.000	-.3035	-.2633			-.0300	.0000
270.000	-.3133	-.2338	-.0995	-.1809	-.1464	-.1755
315.000	-.3164	-.2542			.0275	.0358

ALPHAL(7) = 6.244   BETAL (5) = 4.230

SECTION (1)SRM BOOSTER   DEPENDENT VARIABLE CP

X/LS PHI	.0000	.0335	.0950	.1118	.1397	.1956	.2794	.3632	.4750	.5867	.6985	.7280	.7290	.7360	.7370
.000	1.1548	.4110	.1413	-1.0858	-.6115	-.0923	-.0508	-.0573	-.0194	-.0105	.1472	.5756	-.4669	-.4761	-.5248
45.000		.2114	-.0118	-1.1373	-.8234	-.0935	-.1161	-.1160	-.0903	-.0403	.1548		-.5803	-.5855	
90.000		.1140	-.0521	-1.1396	-.5307	-.0995	-.1345	-.1187	-.0347	.0403	.1369	.0892			
135.000		.1155	-.0594	-1.1187	-.4223	-.0295	-.0834	-.0658	.0212	.0571	.0892	.3319	-.3447	-.4934	-.5463
180.000	1.1548	.1090	-.0602	-1.1259	-.4310	-.1884	-.0950	-.0662	.0346	.0972	.0957				
225.000		.1413	-.0956	-1.1790	-.3874	-.4139	-.0881	-.0585	.0399	.1106	.1304				
270.000		.3370	.3273	-.8124	-.4510	-.3935	-.1269	-.1240	-.0017	.0835	.2280	.4426	-.2163	.4067	-.4822
315.000		.4977	.3200	-1.0247	-.4930	-.1526	-.0132	-.0037	.0319	.0439	.2319				

X/LS PHI	.8102	.8661	.9120	.9130	.9344	.9565
.000	-.0218	-.2748	.4542	.0148	.5259	.2560
45.000	-.1731	-.0722			.1686	.0453
90.000	-.1466	-.0510	.3004	-.0657	.0147	-.1071
135.000	-.1430	-.0734			.0040	-.1090
180.000	-.1654	-.1752	.1927	-.1647	.0024	-.1097
225.000	-.3123	-.2677			-.0443	.0000
270.000	-.3149	-.2227	-.1022	-.1842	-.1707	-.2192
315.000	-.3145	-.2458			.1231	.1185